

Transmitted Via Overnight Courier

GE 159 Plastics Avenue Pittsfield, MA 01201 USA

February 27, 2008

Mr. Richard Hull U.S. Environmental Protection Agency EPA New England One Congress Street, Suite 1100 Boston, Massachusetts 02114-2023

Re: GE-Pittsfield/Housatonic River Site

Groundwater Management Area 4 (GECD340)

Groundwater Quality Monitoring Interim Report for Fall 2007

Dear Mr. Hull:

Enclosed is the *Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Fall 2007*. This report summarizes activities performed at Groundwater Management Area (GMA) 4 (also known as the Plant Site 3 GMA) during fall 2007, and presents the results of the latest round of sampling and analysis of groundwater performed as part of the interim monitoring program for GMA 4. These activities also include sampling performed in conjunction with GE's operation of two On-Plant Consolidation Areas within GMA 4, as well as select sampling conducted by Pittsfield Generating Company, L.P. in association with its existing permitted program. Upgradient groundwater elevation data collected by EPA at the adjacent Allendale School property in fall 2007 are also summarized in this report.

Please call Andrew Silfer or me if you have any questions regarding this report.

Sincerely,

Richard W. Gates

Remediation Project Manager

Enclosure

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cc: Dean Tagliaferro, EPA

Tim Conway, EPA (cover letter only)

Holly Inglis, EPA (CD-ROM)

Rose Howell, EPA (CD-ROM, cover letter only)

K.C. Mitkevicius, USACE (CD-ROM)

Linda Palmieri, Weston (2 hard copies & CD-ROM)

Susan Steenstrup, MDEP (2 copies)

Anna Symington, MDEP (cover letter only)

Jane Rothchild, MDEP (cover letter only)

Thomas Angus, MDEP (cover letter only)

Nancy E. Harper, MA AG

Dale Young, MA EOEA

Mayor James Ruberto, City of Pittsfield

Thomas Hickey, Director, PEDA

Jeffrey Bernstein, BCK Law

Theresa Bowers, Gradient

Michael Carroll, GE (cover letter only)

Andrew Silfer, GE (CD-ROM)

Rod McLaren, GE (cover letter only)

James Nuss, ARCADIS

James Bieke, Goodwin Procter

John Ciampa, SPECTRA

Scott LeBeau, General Dynamics

Tim Eglin, Purenergy, LLC

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General Electric Company Pittsfield, Massachusetts

Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Fall 2007

February 2008

Groundwater Management Area 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

Prepared for:

General Electric Company Pittsfield, Massachusetts

Prepared by: ARCADIS 6723 Towpath Road Syracuse New York 13214-0066 Tel 315.446.9120 Fax 315.449.0017

Our Ref.: B0020187

Date:

February 2008

ARCADIS Table of Contents

1.	Introdu	iction		1
	1.1	Genera	al	1
	1.2	Backgr	ound Information	2
	1.3	Forma	t of Document	6
2.	Field a	nd Ana	lytical Procedures	7
	2.1	Genera	al	7
	2.2	Ground	dwater Level Measurement and LNAPL Monitoring	7
	2.3	Ground	dwater Sampling and Analysis	9
		2.3.1	GMA 4 Sampling	9
		2.3.2	Pittsfield Generating Company Sampling	11
	2.4	Monito	ring Well Decommissioning	11
3.	Ground	dwater	Analytical Results	12
	3.1	Genera	al	12
	3.2	Interim	Groundwater Quality Results	12
		3.2.1	VOC Results	12
		3.2.2	SVOC Results	13
		3.2.3	PCB Results	13
		3.2.4	PCDD/PCDF Results	13
		3.2.5	Inorganic Constituent Results	13
	3.3	Pittsfie	ld Generating Facility Sample Results	14
4.	Assess	sment c	of Results	15
	4.1	Genera	al	15
	4.2	Ground	dwater Quality Performance Standards	15
	4.3	Ground	dwater Quality – Fall 2007	17
		4.3.1	Groundwater Results Relative to GW-2 Performance Standards	18
		432	Groundwater Results Relative to GW-3 Performance Standards	18

ARCADIS Table of Contents

		4.3.3 Comparison to Upper Concentration Limits	19
		4.3.4 Comparison to OPCA Baseline and Prior Groundwater Data	19
		4.3.5 Pittsfield Generating Company Supply Well	21
	4.4	Overall Assessment of Groundwater Analytical Results	22
	4.5	NAPL Monitoring Results	23
5.	Sched	ule of Future Activities	24
	5.1	General	24
	5.2	Field Activities Schedule	24
	5.3	Reporting Schedule	26
Та	bles		
	1	Groundwater Quality Monitoring Program Summary	
	2	Groundwater Elevation Monitoring Program Summary	
	3	Monitoring Well Construction Summary	
	4	Groundwater Elevation Data – Summer/Fall 2007	
	5	Field Parameter Measurements – Fall 2007	
	6	Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards	
	7	Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards	
	8	Comparison of Groundwater Analytical Results to MCP UCLs for Ground	water
	9	Spring 2008 Interim Groundwater Quality Monitoring Activities	
Fiç	jures		
	1	Groundwater Management Areas	
	2	Site Plan	
	3	Water Table Contour Map – Summer 2007	
	4	Water Table Contour Map – Fall 2007	
	5	Top of Till Contour Map	

ARCADIS Table of Contents

Appendices

Α	Groundwater Analytical Results - Fall 2007
В	Historical Groundwater Data
С	Pittsfield Generating Company Groundwater Analytical Data
D	Field Sampling Data
E	Groundwater Elevation/NAPL Monitoring Data- Fall 2007
F	Data Validation Report

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soil, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/ Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), the RAAs at and near the GE Pittsfield facility have been divided into five separate Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them, in Section 2.7 of the Statement of Work for Removal Actions Outside the River (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Plant Site 3 Groundwater Management Area, also known as and referred to herein as GMA 4.

On July 23, 2001, GE submitted the *Baseline Monitoring Program Proposal for Plant Site 3 Groundwater Management Area* (GMA 4 Baseline Monitoring Proposal). The GMA 4 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 4 and proposed groundwater and NAPL monitoring activities (incorporating, as appropriate, those activities that were in place at that time) for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 4 Baseline Monitoring Proposal by letter of December 28, 2001. Thereafter, certain modifications were made to the GMA 4 baseline monitoring program as a result of EPA approval conditions and/or findings during field reconnaissance of the selected monitoring locations. These modifications were documented in a February 21, 2002 *Addendum to the Baseline Monitoring Program Proposal for Plant Site 3 Groundwater Management Area* (GMA 4 Baseline Monitoring Proposal Addendum), conditionally approved by EPA on April 18, 2002.

The baseline monitoring program, which was initiated in the spring of 2002, consisted of four semi-annual groundwater quality sampling events followed by the preparation and submittal of reports summarizing the groundwater monitoring results and, as appropriate,

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proposal of modifications to the monitoring program based on the results obtained from each event. The fourth baseline monitoring report for GMA 4, titled Groundwater Management Area 4 Baseline Groundwater Quality Interim Report for Fall 2003 (Fall 2003 GMA 4 Groundwater Quality Report), was submitted to EPA on January 30, 2004. Section 6.1.3 of Attachment H to the SOW provides that if the two-year "baseline" period ends prior to the completion of soil-related response actions at all the RAAs within a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 4 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions. The Fall 2003 GMA 4 Groundwater Quality Report contained such a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 4 (under a program referred to as an interim monitoring program) until such time as the soil-related Removal Actions at the GMA 4 RAAs are completed and the specific components of a long-term groundwater quality monitoring program are determined. EPA conditionally approved the Fall 2003 GMA 4 Groundwater Quality Report by letter dated May 19, 2004. Under the approved interim monitoring program, semi-annual or annual water quality sampling (alternating between the spring and fall seasons) and periodic water level monitoring at selected GMA 4 wells was initiated in spring 2004, as documented in the Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Spring 2004 (Spring 2004 Groundwater Quality Report), approved by EPA in a letter dated November 12, 2004.

As part of the interim monitoring program, GE is required to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. This *Groundwater Management Area 4 Groundwater Quality Monitoring Interim Report for Fall 2007* (Fall 2007 Groundwater Quality Report) presents the results of groundwater sampling activities performed at GMA 4 during October and November 2007, as well as other groundwater-related activities performed at this GMA between July and December 2007.

1.2 Background Information

GMA 4 is located within the mid-eastern portion of the GE Plant Area and encompasses the Hill 78 and Building 71 On-Plant Consolidation Areas (OPCAs), the Hill 78-Remainder RAA, and the portion of the Unkamet Brook Area RAA (as defined in the CD and SOW) located to the west of Plastics Avenue. GMA 4 occupies an area of approximately 80 acres, generally bounded by Tyler Street/Tyler Street Extension to the north, Merrill Road to the south,

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Plastics Avenue to the east, and New York Avenue to the west, as illustrated on Figure 2. The Hill 78 and Building 71 OPCAs are located within the central portion of this GMA, which also contains a generating facility operated for Pittsfield Generating Company, L.P. (PGC) under a lease with GE. The eastern portion of this GMA is mostly paved or covered by Buildings OP-1 and OP-2, which contain operations of General Dynamics Corporation conducted under contract with the U.S. Department of the Navy. (GE continues to own the land beneath those buildings.)

GE has performed several activities to select, design, and utilize the Hill 78 and Building 71 OPCAs within GMA 4. Upon completion, the final cover for the Hill 78 OPCA will encompass an area of approximately 6.0 acres of the northern, central section of the site along Tyler Street. The Building 71 OPCA lies directly east and adjacent to this area, and the final cover will occupy an area of approximately 4.4 acres. Consolidation activities and the final closure of the Building 71 OPCA were completed in October 2006, while the Hill 78 OPCA continues to be used by GE and EPA for the permanent consolidation of materials (soil, sediment, demolition debris, etc.) removed during response actions and building demolition activities conducted at the GE plant and several other areas around Pittsfield that are included within the GE-Pittsfield/Housatonic River Site. The nature and scope of the required response actions at the Site, including provisions relating to use of the OPCAs, were established in the CD. In connection with the design of the OPCAs, GE developed a groundwater monitoring program consisting of a baseline groundwater investigation, groundwater monitoring during operation of the OPCAs, and future groundwater monitoring during the post-closure period. The primary objectives of the OPCA groundwater monitoring program are to:

- Periodically (on a semi-annual basis) assess groundwater conditions near the OPCAs;
- Compare current conditions with those observed during previous monitoring activities;
 and
- Identify potential changes in groundwater conditions that may be related to the consolidation activities.

GE performed the initial OPCA-related baseline groundwater investigations between June 14 and 17, 1999, prior to the commencement of consolidation activities. That baseline groundwater investigation originally involved sampling and analysis of 12 monitoring wells (78-1, 78-6, H78B-15, NY-4, and OPCA-MW-1 through OPCA-MW-8) to provide spatial representation on all sides of the OPCAs (i.e., upgradient, downgradient, and crossgradient). Groundwater samples obtained from these 12 wells were analyzed for PCBs and

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other constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides) plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenylhydrazine (Appendix IX+3). As discussed below in Section 4.3.4, the analytical results from that baseline investigation along with the results from groundwater sampling events conducted during the past year for the OPCA monitoring program wells are presented in Table B-1 in Appendix B of this report.

Following EPA's January 2, 2001 conditional approval of the OPCA groundwater monitoring program, GE initiated the semi-annual groundwater monitoring program for the OPCAs to be performed in the spring and fall of each year. That program included groundwater level measurements, groundwater sampling, and laboratory analyses for the 12 monitoring wells utilized in the OPCA baseline investigation, followed by preparation of a summary report. Two sampling events were conducted under the OPCA groundwater monitoring program (i.e., spring 2001 and fall 2001) prior to initiation of the overall GMA 4 baseline monitoring program, at which point the OPCA-related groundwater monitoring activities were incorporated into the other groundwater monitoring activities conducted for GMA 4.

As set forth in the GMA 4 Baseline Monitoring Proposal and GMA 4 Baseline Monitoring Proposal Addendum, the baseline monitoring program at this GMA initially involved a total of 31 monitoring wells, including supplemental wells H78B-16, and H78B-17R. The supplemental wells were sampled solely for VOCs to assess the presence of trichloroethene (TCE) and other chlorinated compounds along the southern boundary of GMA 4. Subsequent modifications to the program approved by EPA resulted in: the decommissioning of three wells (78-7, H78B-8, and H78B-8R); the replacement of two monitoring wells (GMA4-4 for NY-4, and OPCA-MW-1R for OPCA-MW-1); and the installation and sampling of new wells GMA4-5 (designated as a GW-2 sentinel/compliance well), GMA4-6 (designated as a GW-3 perimeter/OPCA monitoring well), and the decommissioning of wells OPCA-MW-1R and OPCA-MW-2 prior to the re-routing of storm and sanitary sewer lines found beneath the Hill 78 OPCAs. These wells will be replaced with wells OPCA-MW-1RR and OPCA-MW-2 upon completion of the re-routing project. The wells included in the GMA 4 baseline monitoring program were monitored for groundwater elevations on a quarterly basis and sampled on a semi-annual basis for analysis of PCBs and/or other Appendix IX+3 constituents. The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well.

Groundwater from deep bedrock wells within GMA 4 is utilized for industrial purposes at the PGC facility. Currently, personnel acting on behalf of PGC collect groundwater samples from an existing bedrock supply well (ASW-5, which serves as its primary source of cooling water) for analysis of PCBs and VOCs, in accordance with an existing permitted program.

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This well is located near the southwest corner of the steam turbine generator building, as illustrated on Figure 2. GE included the analytical results provided on behalf of PGC for samples collected from well ASW-5 in its OPCA groundwater monitoring program reports and continues to include those results in the GMA 4 interim monitoring program reports. The current PGC analytical results appear in Table C-1 in Appendix C of this report.

As previously reported, wells H76B-16, and H78B-17R are sampled on an annual basis (alternating between spring and fall) and analyzed for VOCs to monitor the potential presence of TCE and other chlorinated compounds at the downgradient edge of GMA 4 (Figure 4). These wells were sampled in fall 2007, and the next scheduled sampling will be conducted in spring 2008. In addition, the surface of a dense glacial till forms a trough-like structure in this area (Figure 5), which acts as a confining layer against vertical migration of TCE and other chlorinated constituents. Based on the location of wells H76B-16 and H78B-17R at the downgradient edge of GMA 4 and within the glacial till trough, it is anticipated that the source of the TCE and other related chlorinated constituents originated from an upgradient location relative to both groundwater flow and the slope of the till surface. If TCE-containing DNAPL were present, it would tend to migrate vertically downward, based on its density relative to water, until encountering a confining layer, at which point transport would continue along the top of till interface. However, no such DNAPL has been observed in any monitoring wells within GMA 4. As shown on Figure 5, the till trough extends northwest beneath the PGC facility toward the former Hill 78 landfill.

As discussed above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs, including the implementation of groundwater monitoring, assessment, and recovery programs. In general, these programs consist of a baseline monitoring program conducted over a period of at least two years to establish existing groundwater conditions and a long-term monitoring program performed to assess groundwater conditions over time and to verify the attainment of the Performance Standards for groundwater. The baseline monitoring program was initiated at GMA 4 in the spring of 2002, and the fall 2003 sampling event constituted the fourth baseline sampling event at most of the wells in GMA 4. In spring 2006, GE completed the fourth sampling round at the final baseline monitoring location (well UB-MW-5), which had been dry and unable to be sampled during several of the prior baseline sampling events, and thereby completed the required baseline sampling.

In the Fall 2003 GMA 4 Groundwater Quality Report, GE described its proposed interim groundwater quality monitoring program. EPA conditionally approved that report by letter dated May 19, 2004. GE implemented the interim monitoring program during the spring 2004 sampling event and will continue that program until the completion of the soil-related

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Removal Actions at the GMA 4 RAAs. At that time, GE will submit a final baseline monitoring report, including a proposal concerning long-term monitoring.

As of fall 2007, the interim monitoring program consists of:

- Sampling and analysis of 12 OPCA-related wells on a semi-annual basis.
- Annual sampling and analysis (alternating between spring and fall seasons) for select constituents at two GMA 4 wells (H78B-16 and H78B-17R) located along the downgradient edge of the GMA, where VOCs were detected in groundwater.
- Monthly, quarterly, or semi-annual groundwater elevation monitoring at the wells referenced in Table 2.

The fall 2007 sampling event was initiated by GE on October 8, 2007 and the required data collection at all locations scheduled to be sampled was completed on November 13, 2007. The GMA 4 interim groundwater quality monitoring program activities performed in fall 2007 are summarized in Table 1.

1.3 Format of Document

The remainder of this report is presented in five sections. Section 2 describes the activities performed under the interim monitoring program at GMA 4 in fall 2007. Section 3 presents the analytical results obtained during the fall 2007 groundwater sampling event, while Section 4 provides a summary of the applicable groundwater quality Performance Standards identified in the CD and SOW and provides an assessment of the results of the fall 2007 activities, including a comparison to those Performance Standards. A comparison of the recent monitoring results to the prior OPCA-related monitoring data is also provided. Finally, Section 5 presents the schedule for future field and reporting activities related to groundwater quality at GMA 4.

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2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the interim groundwater monitoring program and summarized herein primarily involved the measurement of groundwater levels and the collection and analysis of groundwater samples at select monitoring wells within GMA 4, as described on Tables 1 and 2, and depicted on Figure 2. The construction details of the wells that were monitored and/or sampled at GMA 4 in fall 2007 are provided in Table 3 and the fall 2007 field sampling records are presented in Appendix D. This section discusses the field procedures used to measure site groundwater levels, check for the presence of NAPL, and collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were conducted in accordance with GE's March 30, 2007 *Project Operations Plan (POP) and Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP)*.

2.2 Groundwater Level Measurement and LNAPL Monitoring

Groundwater elevations were measured at selected wells shown in Table 2. The summer groundwater elevation monitoring event was performed on July 10, 2007, and the fall 2007 groundwater elevation monitoring event at GMA 4 was conducted on October 30 and 31, 2007. Groundwater elevations were, on average, approximately 0.73 foot lower than the elevations measured during the prior fall monitoring round in 2006 at water table wells measured during both monitoring events. Table 4 summarizes the groundwater elevation monitoring data for the two monitoring events. The groundwater elevation data shown in that table were subsequently used to prepare groundwater elevation contour maps of the summer and fall groundwater monitoring events (Figures 3 and 4). As shown on these figures, the groundwater flow directions are generally consistent with those observed during previous seasonal monitoring events. A comparison of the groundwater contour maps with the top of till contour map (Figure 5) shows that groundwater elevations are generally correlated to changes in the elevation of the glacial till interface. Specifically, groundwater generally flows from north to south, although variations exist corresponding to changes in the topography of the ground surface and/or the glacial till interface, including a prominent groundwater depression extending from northwest to southeast across the western portion of the GMA. Well GMA4-6 is located within this depression along the northern portion of GMA 4 and the groundwater elevation at this well is lower than in other wells surrounding the OPCAs to the east and west. No data for well 78-6, which is also in this depression, was reported during the summer 2007 or fall 2007 monitoring rounds, since the well was buried under mulch and could not be found. The well was located in November 2007, and

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data collected at that time is shown on Figure 4 and Appendix E. As directed in EPA's June 5, 2006 letter, GE will continue to monitor wells in this area on a quarterly basis to evaluate groundwater flow conditions around the OPCAs.

EPA's November 14, 2006 conditional approval letter for the GMA 4 Groundwater Quality Monitoring Interim Report for Spring 2006 directed GE to include any EPA-generated groundwater elevation and/or analytical data from EPA-installed monitoring wells or piezometers on or adjacent to the Allendale School property in future GMA 4 submittals. EPA installed piezometers PZ-1, PZ-2, PZ-3, and PZ-4 on November 6, 2007 in order to better define groundwater flow patterns beneath the Allendale School property. EPA monitored the four new piezometers, along with existing Allendale School monitoring well SCH-1 and five GMA 4 monitoring wells (78-1, 78-6, GMA4-6, NY-4, and SCH-4) on November 12-13, 2007. The locations of these wells and piezometers are shown on Figure 2, and the EPA-generated groundwater elevation data from any wells or piezometers are shown on Figure 4 for locations that were not also monitored as part of the semi-annual monitoring event at GMA 4 (i.e., piezometers PZ-1, PZ-2, PZ-3, and PZ-4 and monitoring wells SCH-1 and 78-6). Those data were utilized to create the inferred groundwater elevation contours shown on Figure 4, since EPA performed its monitoring approximately two weeks after the semi-annual monitoring conducted by GE. For wells that were monitored both by GE and EPA (i.e., wells 78-1, GMA4-6, NY-4, and SCH-4), the GEgenerated data are shown on Figure 4 and were utilized for groundwater elevation contouring.

The EPA monitoring data are consistent with the GE GMA 4 data. Groundwater elevations are highest at the northernmost well adjacent to the school (SCH-1) and decrease from north to south (i.e., groundwater flows from the Allendale School property toward GMA 4). The groundwater elevations in the piezometers located in the downgradient portion of the Allendale School property each had higher groundwater elevations than the nearest wells on the upgradient edge of GMA 4, providing further confirmation that GMA 4 is downgradient from the Allendale School property.

Prior to June 2003, weekly groundwater and LNAPL measurements were collected at well H78B-8R. If present, LNAPL was recovered and properly disposed. In June 2003, well H78B-8R was decommissioned in order to accommodate the expansion of the Hill 78 OPCA. This well (H78B-8R) was the only location within GMA 4 where NAPL had been encountered. Since the removal of well H78B-8R, particular attention has been given to well OPCA-MW-2 (until it's decommissioning in October 2007, as discussed in Section 2.3) and well OPCA-MW-3 (located downgradient from former well H78B-8R) when groundwater measurements and samples were obtained. In addition, well GMA4-3 has been monitored

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on a monthly basis since April 2005 to assess the extent of LNAPL observed at GMA 3, located to the east of GMA 4, in the vicinity of Buildings 51 and 59. No NAPL was observed at any of these locations.

The results of all groundwater elevation/NAPL monitoring activities performed during fall 2007 are summarized in Appendix E. As noted above, field observations and measurements indicate that NAPL has not entered wells OPCA-MW-2, OPCA-MW-3, or GMA4-3, or been encountered in any of the other wells monitored and/or sampled during fall 2007.

2.3 Groundwater Sampling and Analysis

2.3.1 GMA 4 Sampling

The fall 2007 interim sampling event was performed between October 8 and 15, 2007 at 12 groundwater monitoring wells, which include the groundwater monitoring wells associated with the OPCA monitoring program. Well 78-6 was buried beneath mulch and brush and nearby well SCH-4 was inadvertently sampled. GE subsequently was able to locate well 78-6 and samples from that well were collected on November 13, 2007. All activities were conducted in accordance with GE's March 30, 2007 *Project Operations Plan* (POP) and *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP). The pump intake depth and type of pump used during the fall 2007 sampling event are identified on the sampling records contained in Appendix D.

Low-flow sampling techniques, using either a bladder or peristaltic pump, were utilized for the purging and collection of groundwater samples during this sampling event. Each monitoring well that was sampled was purged utilizing low-flow sampling techniques until field parameters (including temperature, pH, specific conductivity, turbidity, dissolved oxygen, and, oxidation-reduction potential) stabilized prior to sample collection. Field parameters were measured in combination with the sampling activities at the monitoring wells. The field parameter measurements are presented in Table 5 and the field sampling records are provided in Appendix D.

A general summary of the field measurement results during the fall 2007 monitoring event is provided below.

Parameter	Units	Range		
Temperature	Degrees Celsius	11.60-19.39		
рН	pH units	5.89-9.82		

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Parameter	Units	Range		
Specific Conductivity	Millisiemens per centimeter	0.637-6.661		
Turbidity	NTUs	1-47		
Dissolved Oxygen	Milligrams per liter	0.33-23		
Oxidation-Reduction Potential	Millivolts	-27.3-224.10		

As shown above and in Table 5 for this sampling event, none of the groundwater samples extracted from the monitoring wells had turbidity levels greater than the target level of 50 NTU upon stabilization. These results indicate that the sampling and measurement procedures utilized during this sampling event were effective in obtaining representative groundwater samples with low turbidity. The sampling logs for well H78B-17R show pH ranges from 14.61 to 15.87 during the fall 2007 sampling round (Appendix D). Since the pH scale ends at 14, however, this information was considered anomalous and not included in the range of data shown in the table above. Although instrument calibrations were checked following such readings, GE suspects that the elevated pH data are anomalous and result from instrument malfunction, rather than a change in pH from prior rounds at the locations in question. GE will review the pH data to be collected during the upcoming spring 2008 sampling event to further assess these apparent anomalies.

The collected groundwater samples were submitted to SGS Environmental Services, Inc. (SGS) of Wilmington, North Carolina for laboratory analysis. All groundwater samples collected during this sampling event, except those from wells H78B-16 and H78B-17R (which were submitted for analysis solely for VOCs, using EPA Method 8260B), were submitted for analysis of the following constituents using the associated EPA methods:

Constituent	EPA Method			
VOCs	8260B			
SVOCs	8270C			
PCBs (Filtered Samples)	8082			
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290			
Metals (Filtered Samples)	6010B, 7000A, and 7470A			
Physiologically Available Cyanide (Filtered Samples)	9014/MDEP PAC Protocol			
Sulfide	9034			

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Following receipt of the analytical data on the GE samples from the laboratory, the preliminary results were reviewed for completeness and compared to the Massachusetts Contingency Plan (MCP) Method 1 GW-2 (where applicable) and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site.

The GE data for the fall 2007 interim groundwater quality sampling were validated in accordance with the FSP/QAPP. As discussed in the validation report provided in Appendix F, 99.0% of the fall 2007 groundwater quality data are considered to be useable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. The PCB, PCDD/PCDF, inorganic and cyanide sample results were found to be 100% usable. VOC and SVOC sample results were found to be 99.9% usable. Sulfides were found to be 93.3% usable. For VOCs, SVOCs, and sulfides, one sample result from each analyte group was rejected due to MS/MSD recovery deviations.

2.3.2 Pittsfield Generating Company Sampling

In accordance with PGC's existing permitted program, personnel acting on behalf of PGC currently collect groundwater samples for analysis of VOCs and PCBs from PGC's deep bedrock groundwater extraction well (well ASW-5, screened at approximately 441 to 457 feet below ground surface). This well serves as the primary source of cooling water for the PGC plant. GE has included the analytical results provided on behalf of PGC for samples collected from ASW-5 in this report, as well as a comparison of these data to historical results. A summary of well ASW-5 monitoring results is provided in Table C-1 within Appendix C.

2.4 Monitoring Well Decommissioning

Monitoring wells OCPA-MW-1R and OPCA-MW-2 were decommissioned on October 16, 2007, in preparation for the re-routing of storm and sanitary sewer lines found beneath the Hill 78 OPCAs to areas near these wells. The fall 2007 sampling event was completed at these wells prior to decommissioning. However, the wells were removed prior to the fall 2007 groundwater elevation monitoring round, so no data from these locations were available for the preparation of the fall 2007 groundwater elevation contour map (Figure 4). As discussed in Section 5.2, wells OCPA-MW-1RR and OPCA-MW-2R will be installed following completion of the sewer re-routing project. Monitoring and sampling of these wells will be initiated after the replacement wells have been installed.

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3. Groundwater Analytical Results

3.1 General

A description of the fall 2007 groundwater analytical results is presented in this section. Tables 6 and 7 provide a comparison of the concentrations of detected constituents with the applicable GW-2 and GW-3 groundwater quality Performance Standards established in the CD and SOW (for wells where those respective standards apply), while Table 8 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater (for all wells sampled in fall 2007) Table A-1 in Appendix A provides the complete data set (constituents detected and not detected) for the groundwater samples analyzed during this sampling event. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4. The results from well SCH-4, which was inadvertently sampled as discussed in Section 2.3.1, are included in Tables 7, 8, and A-1 and have been incorporated into the summary of results below and the evaluations in Section 4.

3.2 Interim Groundwater Quality Results

The following subsections provide an overview of the fall 2007 analytical results from the GMA 4 groundwater quality monitoring wells for each constituent group that was analyzed.

3.2.1 VOC Results

A total of 15 groundwater samples were collected and analyzed for VOCs during the fall 2007 sampling event. The VOC analytical results are summarized in Table 8 and Table A-1 (within Appendix A). No VOCs were detected in wells GMA4-6, OPCA-MW-3, OPCA-MW-6, and OCPA-MW-8. Where VOCs were detected, total VOCs were present in a range from an estimated concentration of 0.00010 ppm (at well SCH-4) to an estimated concentration of 0.11 ppm (well H78B-17R). A total of thirteen different VOCs were detected in one or more wells. Toluene and trichloroethene were the most frequently detected VOCs (detected in four wells each). Toluene was detected in wells OPCA-MW-4, OPCA-MW-5R, OCPA-MW-7, and SCH-4 at estimated concentrations ranging from 0.00032 ppm (well OPCA-MW-4) to 0.0010 ppm (SCH-4). Trichloroethene was detected in wells H78B-15, H89B-16, H78B-17R, and OPCA-MW-4 in concentrations ranging from an estimated concentration of 0.00023 ppm (well H78B-15) to a concentration of 0.10 ppm (H78B-17R).

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3.2.2 SVOC Results

A total of 13 groundwater samples were collected and analyzed for SVOCs during the fall 2007 sampling event. The SVOC analytical results are summarized in Table 8 and Table A-1 (within Appendix A). Bis(2-Ethylhexyl)phthalate was detected in one well (OCPA-MW-8) at estimated concentrations of 0.0017 ppm. Dimethylphthalate and naphthalene were detected in well 78-6 at estimated concentrations of 0.0006 ppm and 0.0016 ppm, respectively. No SVOCs were detected in any of the remaining wells analyzed for this constituent group in fall 2007.

3.2.3 PCB Results

Filtered groundwater samples from 13 wells were analyzed for PCBs as part of the fall 2007 sampling event. The PCB analytical results are summarized in Table 8 and Table A-1 (within Appendix A). PCBs were detected in one well (OPCA-MW-7) at an estimated concentration of 0.00211 ppm. The concentration of PCBs detected in well OCPA-MW-7 exceeded the MCP GW-3 standard for PCBs, although this was not the first PCB exceedance at this well.

3.2.4 PCDD/PCDF Results

Groundwater samples collected from 13 monitoring wells were analyzed for PCDDs/PCDFs during the fall 2007 sampling event. The analytical results are summarized in Table 8 and Table A-1 (within Appendix A). In addition, total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half of the analytical detection limit for those compounds. Total TEQ concentrations ranged from $0.64x10^{-8}$ ppm to $1.20x10^{-8}$ ppm.

3.2.5 Inorganic Constituent Results

Filtered groundwater samples were obtained from 13 monitoring wells for analysis of inorganic constituents during the fall 2007 sampling event. Unfiltered samples from the 13 wells were also analyzed for sulfide. The analytical results for these inorganic constituents are summarized in Table 8 and Table A-1 (within Appendix A).

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

Twelve locations contained at least one inorganic constituent in the filtered samples. Barium was the mostly commonly observed inorganic constituent (detected in ten filtered samples), followed by zinc (detected in nine filtered samples). No inorganic constituents were detected in well OPCA-MW-1R. There was no sulfide detected in any well during the fall 2007 sampling round. All detected inorganic constituent concentrations were below the applicable MCP Method 1 GW-3 standards.

3.3 Pittsfield Generating Facility Sample Results

The results of the most recent deep bedrock groundwater sampling activities performed on behalf of PGC at industrial supply well ASW-5 (conducted in December 2007), along with data from prior sampling events, are summarized in Table C-1 of Appendix C. PCBs were not detected in this well, while the only VOC detected in the groundwater sample collected from this well was TCE at a concentration of 0.014 ppm.

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4. Assessment of Results

4.1 General

This report constitutes the eighth interim groundwater quality monitoring report for GMA 4, and is the fourteenth monitoring report submitted since commencement of the groundwater monitoring program associated with the OPCAs. The information presented herein is based on the laboratory results obtained during the fall 2007 groundwater sampling event, supplemented with historical groundwater analytical data when applicable.

4.2 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 4 are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the MCP. The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1; however, the remaining MCP groundwater categories are applicable to GMA 4 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the
 indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet
 of an existing occupied building and has an average annual depth below ground
 surface (bgs) of 15 feet or less. Under the MCP, volatile constituents present within
 GW-2 groundwater represent a potential source of organic vapors to the indoor air of
 the overlying and nearby occupied structures.
- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to ultimately discharge to surface water. In accordance with the CD and SOW, all groundwater at GMA 4 is considered as GW-3.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and GW-3 groundwater (310 CMR 40.0974). These "default" standards have been developed to be conservative and will serve as the initial basis for evaluating groundwater at GMA 4. The current MCP

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General Electric Company Pittsfield, Massachusetts

Method 1 GW-2 and GW-3 standards for the constituents detected in the fall 2007 sampling event are listed in Tables 6 and 7, respectively. For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards (Method 2 standards) for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using the MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

On January 9, 2006, MDEP approved revised Method 1 numerical standards for a number of constituents in groundwater. The revised standards became effective on April 3, 2006. This report uses the revised numerical standards for those substances for which revised numerical standards exist.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 4 consist of the following:

- At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following:
 - (a) the Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards);
 - (b) alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied buildings; or

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- (c) a condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.
- 2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards:
 - (a) the Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or
 - (b) alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been designated as the compliance points for attainment of the Performance Standards identified above. These wells were identified in the GMA 4 Baseline Monitoring Proposal Addendum and are described further in Sections 4.3.1 (for GW-2 wells) and 4.3.2 (for GW-3 wells).

In addition to the Performance Standards described above, analytical results from all groundwater monitoring wells sampled during the fall 2007 sampling event were compared to the MCP UCLs for groundwater. Analytical results from wells included in the OPCA groundwater monitoring program were also compared to the 1999 baseline data, as well as prior OPCA-related monitoring data, for those wells.

4.3 Groundwater Quality - Fall 2007

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the fall 2007 groundwater sampling event were compared to the groundwater Performance Standards for GMA 4. These Performance Standards are described in Section 4.2 above and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the fall 2007 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP UCLs for groundwater. In support of those discussions, Tables 6 and 7 provide a comparison of the concentrations of the detected constituents with the current

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GW-2 and GW-3 standards, respectively, while Table 8 presents a comparison of the concentrations of detected constituents with the MCP UCLs for groundwater.

With regard to constituents that may be analyzed as either a filtered or unfiltered sample (i.e., PCBs and inorganics), all monitoring wells were sampled and analyzed in accordance with the approved interim program protocols during the fall 2007 sampling event, which provides for the collection of filtered data only for PCB and inorganic constituent analyses (except for sulfide, which is analyzed in unfiltered samples only). The filtered results are utilized for comparison to the MCP GW-3 standards while both the filtered and any unfiltered results are compared to the MCP UCLs for groundwater.

4.3.1 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were collected from four monitoring wells at GMA 4 that have been designated as GW-2 monitoring wells and will be compliance points for the GW-2 standards. These wells are H78B-15, OPCA-MW-1R, OPCA-MW-4, and OPCA-MW-5R. The fall 2007 groundwater analytical results for the detected constituents within these four wells were compared to the MCP Method 1 GW-2 standards as presented in Table 6.

There were no exceedances of GW-2 standards during this sampling round. None of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells within 30 feet of a school or occupied residential structure, and a potential trigger level, if seen at a well where the GW-2 standards had previously been exceeded, for the proposal of interim response actions). At well OPCA-MW-5R, vinyl chloride was not detected in the fall 2006, the spring 2007 or the fall 2007 sampling events, although the concentration during the spring 2006 sampling event had exceeded the GW-2 standard for vinyl chloride.

4.3.2 Groundwater Results Relative to GW-3 Performance Standards

Groundwater samples were collected from 13 wells designated as GW-3 monitoring points during the spring 2007 groundwater sampling event. Four of these wells (H78B-15, OPCA-MW-1R, OPCA-MW-4, and OPCA-MW-5R) are designated as GW-2 Sentinel/GW-3 general source area sentinel wells. Three of these wells (78-1, 78-6, and GMA 4-6) are GW-3 upgradient perimeter wells. Six wells (OPCA-MW-2, OPCA-MW-3, OPCA-MW-6 though OPCA-MW-8, and H78B-17R) are downgradient GW-3 monitoring wells, which will ultimately serve as GW-3 compliance points. The analytical results for the constituents detected in these wells were compared to the applicable MCP Method 1 GW-3 standards as presented in Table 7. Although Table 7 provides a comparison of the fall 2007 analytical

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results from all 12 monitoring wells with GW-3 standards, those wells are not all GW-3 compliance points. In addition, the results for well SCH-4, which was inadvertently monitored this fall, are included in this comparison to the GW-3 standards, since they would apply to this location.

The concentrations of PCBs detected in well OCPA-MW-7 (0.00211) exceeded the MCP GW-3 standard for PCBs (0.0003 ppm). As shown in the historical data in Appendix B, there have been two prior exceedances of this standard at this well, but the fall 2007 results were higher than any historical result. However, a review of the sampling log at this well (Appendix D) indicates that the well ran dry multiple times while collecting samples at this well from October 11 to 18, 2007. Consequently, the PCB results may be anomalous due to disturbance of sediments at the bottom of the well and not indicative of surrounding groundwater conditions. No other GW-3 standards were exceeded in fall 2007. As discussed below, GE will continue to monitor PCB concentrations at this well.

4.3.3 Comparison to Upper Concentration Limits

In addition to comparing the fall 2007 groundwater analytical results with applicable MCP Method 1 GW-2 and MCP Method 1 GW-3 standards, those results have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)). These comparisons are presented in Table 8, which indicates that none of the constituents detected was above its respective UCL in any of the groundwater samples analyzed during the fall 2007 sampling event.

4.3.4 Comparison to OPCA Baseline and Prior Groundwater Data

Groundwater samples were collected from 12 OPCA monitoring wells during the fall 2007 interim sampling event. Analytical data from the samples collected were compared to the results of the 1999 OPCA baseline investigation and, where relevant, to the results of more recent semi-annual monitoring events. The analytical data from the initial OPCA groundwater monitoring events conducted in 1999 and 2001 are summarized in Table B-1 within Appendix B, along with data collected during the most recent year of sampling. Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB concentrations for the OPCA wells over the duration of the groundwater monitoring program are also presented in Appendix B, along with graphs of historical concentrations of individual constituents where concentrations exceeded the applicable current MCP Method 1 GW-2 or GW-3 standards or UCLs during at least one OPCA monitoring program sampling event. The results of these comparisons for each analytical constituent group (i.e., VOCs, SVOCs, PCBs, PCDDs/PCDFs, and inorganics) are discussed below.

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General Electric Company Pittsfield, Massachusetts

With limited exceptions, the fall 2007 groundwater sampling results from the OPCA monitoring wells were consistent with those from the baseline round and/or recent sampling events (other than the spring 2006 PCB data, which, as discussed in the spring 2007 GMA 4 Groundwater Monitoring Interim Report, and approved by EPA on October 22, 2007, appears to have been anomalous). All constituents were below the applicable UCLs, Method 1 GW-2 standards, and/or Method 1 GW-3 standards, except for results from OCPA-MW-7, where the results of total PCBs (0.00211 ppm) exceeded the MCP GW-3 standard for PCBs (0.0003 ppm). As discussed in Section 4.3.2, this result may have been influenced by the mixing of sediment in the well which dried several times during sampling. GE will continue monitoring this well to evaluate these results further.

VOCs

Nine VOCs were detected in the fall 2007 OPCA monitoring well samples. Toluene was the most frequently detected VOC. Toluene was detected in three wells (OPCA-MW-4, OPCA-MW-5R, and OPCA-MW-7) at estimated concentrations ranging from 0.00011 ppm (well OPCA-MW-5R) to 0.00032 ppm (well OPCA-MW-4), which are well below the GW-3 standard of 4 ppm. Other VOCs detected in OPCA wells include 1,1,1-trichloroethane 1,1-Dichloroethane, acetone, bromoform, chlorobenzene, tetrachloroethene, trichloroethene, and trichlorofluoromethane. None of these constituents was detected at concentrations above its respective GW-3 standard. Vinyl chloride, which was detected in well OPCA-MW-5R in spring 2006 at a concentration above the GW-2 standard, was not detected at this well during this monitoring round or during the previous two monitoring round (fall 2006 and spring 2007). As shown in the graph in Appendix B, there has been only one detection of vinyl chloride at well OPCA-MW-5R in fifteen sampling events. Therefore, the data from the spring 2006 monitoring round appear to be anomalous.

These VOC results are generally consistent with the 1999 baseline sampling analytical results and have been compared with the historical results as illustrated in the graphs provided in Appendix B. As discussed below, GE plans to continue the OPCA groundwater monitoring program and to continue to monitor concentrations of these and other constituents in the OPCA wells.

SVOCs

Three SVOCs were detected in OPCA monitoring wells during the fall 2007 monitoring event. Bis(2-Ethylhexyl)phthalate was detected in well OPCA-MW-8 at estimated concentration of 0.0017 ppm. Dimethylphthalate and naphthalene were found in well 78-6 in estimated concentrations of 0.00060 ppm, and 0.0016 ppm, respectively. No other

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

SVOCs were detected in wells during this sampling round. None of these constituents was detected above its applicable MCP Method 1 standard.

PCBs

The fall 2007 analytical results for the OPCA groundwater monitoring program indicate that PCBs were detected in one of the twelve filtered samples (from well OPCA-MW-7), at a concentration of 0.00211ppm, which exceeds the GW-3 standard of 0.0003 ppm for total PCBs. As shown in the graphs of historical analytical results in Appendix B, at well OCPA-MW-7 there have been slight exceedances in previous sampling events (fall 2005 and spring 2006). However, as discussed in Section 4.3.2, the fall 2007 results are thought to be anomalous based on the sampling conditions. No other PCBs were detected in any other wells during the fall 2007 sampling event. GE will continue to monitor this well for PCBs in future sampling rounds to assess the validity of this sample result.

Other Appendix IX+3 Constituents

Low levels of PCDDs were observed in OPCA groundwater monitoring program wells OPCA-MW-2, OPCA-MW-5R, OPCA-MW-6, OPCA-MW-7, and OPCA-MW-8, and trace levels of PCDFs were detected in six wells (78-1, 78-6, GMA4-6, OPCA-MW-1R, OPCA-MW-2, OPCA-MW-5R) during the fall 2007 sampling event. No PCDDs or PCDFs were detected in wells H78B-15, OPCA-MW-3, and OPCA-MW-4. As previously discussed in Section 3.2.4, TEQ values are calculated for each sample using TEFs and half the detection limit for non-detected PCDDs and PCDFs. The concentrations of these TEQ values are similar to those previously observed during the OPCA groundwater monitoring program and are also below the applicable UCL and Method 1 GW-3 standard.

For inorganic constituents, minor variations in detected concentrations have been observed in several monitoring wells. These fluctuations have been observed during the course of the OPCA groundwater monitoring program and are considered typical for inorganic constituents in groundwater. There were no exceedances of applicable MCP Method 1 standards observed in the GMA 4 wells during this sampling event for inorganic constituents.

4.3.5 Pittsfield Generating Company Supply Well

As noted above, one groundwater sample obtained from the PGC deep bedrock industrial cooling-supply well ASW-5 was analyzed on behalf of PGC for VOCs and PCBs in accordance with its approved monitoring program. No constituents other than TCE were

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detected in the most recent sample obtained from supply well ASW-5. A table and graphs summarizing the historical analytical results for this well are provided in Appendix C. As shown on those graphs, total VOC concentrations (consisting primarily of TCE) have remained fairly consistent, ranging between 0.009 ppm and 0.038 ppm since June 1996, with the fall 2007 total VOC result (0.014 ppm) falling in the lower portion of this historical range. None of the VOCs detected in this supply well has been observed at concentrations above the MCP Method 1 GW-3 standards. In addition, PCBs have not been detected in this well in any of the samples collected during this time frame.

4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB concentrations for all wells sampled in fall 2007 are presented in Appendix B. In addition, Appendix B contains graphs of historical concentrations of individual constituents at monitoring wells where concentrations exceeded the applicable current MCP Method 1 GW-2 or GW-3 standards or UCLs during one or more of the prior baseline, interim, or OPCA monitoring program sampling events.

Based on a review of the concentration vs. time graphs presented in Appendix B, VOCs have not been detected or have remained at low levels in the majority of the wells that have been monitored, with the exception of certain wells located within the groundwater depression extending from northwest to southeast beneath the Hill 78 OPCA and PGC facility, where varying concentrations of chlorinated VOCs have been observed.

As discussed above, the fall 2007 groundwater sampling and analysis results from GMA 4 showed only one well that exceeded an applicable groundwater quality standard for any constituent (PCBs in well OPCA-MW-7). With the exception of that well, fall 2007 PCB concentrations were generally consistent with the results of the fall 2006 sampling round, which showed a significant decrease from spring 2006. PCBs were detected at an estimated concentration of 0.00211 ppm at well OPCA-MW-7 in fall 2007 (above the GW-3 standard), but not detected in this well in fall 2006. As discussed in Section 4.3.2, the results may be anomalous due to the disturbance of sediment at the bottom of the well. In general, the PCB data have not exhibited any clear trends (either seasonal or from event to event) during the course of the monitoring program. Rather, as indicated in previous reports for this GMA, fluctuations in PCB concentrations have generally been observed on a GMA-wide basis during certain monitoring events. GE will continue to sample PCBs from well OPCA-MW-7, and no changes in the monitoring program are proposed at this time.

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

With the single exception discussed above, all detected constituents were at levels below the respective Method 1 GW-2 standards, Method 1 GW-3 standards, and/or UCLs for groundwater.

4.5 NAPL Monitoring Results

NAPL monitoring was conducted during all groundwater elevation monitoring activities conducted in fall 2007. NAPL was not observed in any of the GMA 4 monitoring wells monitored during this time period, including wells OPCA-MW-2 and OPCA-MW-3, which are located downgradient of the only known occurrence of NAPL at this GMA (i.e., at well H78B-8R, which was decommissioned as part of the OPCA construction). In addition to the semi-annual groundwater elevation/NAPL monitoring event, GE continued monthly groundwater elevation/NAPL monitoring at well GMA4-3 to verify that LNAPL has not migrated from GMA 3 to the western side of Plastics Avenue. The results of this monitoring are provided in Appendix E (along with all other monitoring data collected in fall 2007). LNAPL has not been detected at well GMA4-3 since monthly monitoring was initiated in April 2005. GE plans to continue to monitor well GMA4-3 on a monthly basis for the presence of LNAPL and will include those results, along with any proposals to address the monitoring results, in the future groundwater quality reports for GMA 3 and GMA 4.

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield, Massachusetts

5. Schedule of Future Activities

5.1 General

In fall 2007, GE conducted the eighth sampling event of the interim groundwater monitoring program. This program will be conducted until completion of any necessary soil-related Removal Actions at the RAAs that comprise GMA 4. The fall 2007 monitoring event also included the OPCA groundwater monitoring program, which will be continued during the interim period with sampling and analysis being conducted on a semi-annual basis until closure of the OPCAs, and monthly, quarterly, or semi-annual groundwater elevation monitoring at specific wells, as shown in Table 2.

GE has reviewed the groundwater analytical data from this sampling event for results that would indicate the need to modify the interim monitoring program. The fall 2007 data are generally consistent with prior monitoring events and no modifications to the interim monitoring program are proposed at this time.

This section addresses the schedule for future groundwater quality monitoring activities and reporting for GMA 4. Specifically, this section provides a schedule for the upcoming spring 2008 interim monitoring/sampling event and associated reporting activities. A summary of the spring 2008 interim sampling program is provided in Table 9.

5.2 Field Activities Schedule

GE anticipates that the spring 2008 interim sampling event will take place in April 2008. Semi-annual sampling and analyses will be performed at the twelve OPCA groundwater monitoring program wells. Analyses of groundwater samples will be performed according to the requirements of the OPCA groundwater monitoring program, as listed in Table 9. The annual sampling of wells H78B-16 and H78-17R for select constituents will also be performed.

Groundwater elevations from select wells will be monitored on a quarterly basis, with future monitoring rounds conducted during the months of April, July, October, and January. The April 2008 monitoring round will also include all baseline wells that have been retained for semi-annual groundwater elevation monitoring. Well GMA4-3 will continue to be monitored for NAPL on a monthly basis throughout spring 2008.

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As discussed in Section 2.2, four new piezometers were installed by EPA at the Allendale School property on November 6, 2007, one week after the semi-annual monitoring event was conducted at GMA 4. Approximately one week after installation of the new piezometers, existing well SCH-1 and piezometers PZ-1, PZ-2, PZ-3, and PZ-4 on the Allendale School property and five GMA 4 monitoring wells were monitored by EPA. Those monitoring data have been incorporated into this report to the extent practical, given the two-week time period that elapsed between the GE and EPA monitoring rounds. The next EPA-conducted monitoring round at those locations was conducted on the same day as the quarterly monitoring event conducted at GMA 4 in January 2008. The data collected during that monitoring round was included in the January 2008 monthly report on overall activities at the GE-Pittsfield/Housatonic River Site and will also be presented (along with a groundwater elevation contour map utilizing both GE- and EPA-generated data) in the next semi-annual report for GMA 4. GE will continue to coordinate the scheduling of its quarterly and semi-annual groundwater elevation monitoring activities with EPA to facilitate the concurrent collection of supplemental data from the Allendale School property by EPA.

Following completion of the re-routing of the storm and sanitary sewer lines beneath GMA 4, wells OPCA-MW-1RR and OPCA-MW-2R will be installed to replace wells OPCA-MW-1R and OCPA-MW-2. The historical groundwater elevation data at wells OCPA-MW-1R and OPCA-MW-2 were compared to the respective screen placements to determine if screened elevations for these wells should be revised prior to installation of the replacement wells. The monitoring well construction summary data are included in Table 3. Historical groundwater elevations for well OPCA-MW-1R range from approximately four feet bgs to approximately ten feet bgs. The top of screen and base of screen elevations for the current well are ten feet bgs and 25 feet bgs respectively. Therefore, the well screening should be A screen length of 10 feet (base of screen elevation to 13 feet bgs) should provide appropriate screening for the range of groundwater elevations seen at the current well. For well OCPA-MW-2R, historical groundwater elevation reported for this well during the quarterly monitoring rounds range from approximately 13 feet bgs (spring 2003) to approximately 19 feet (fall 2002). The elevations to the top of screen and base of screen are 13 feet bgs and 23 feet bgs, respectively. No changes need to be made to the screening for this well. A review of the well sampling logs indicates that neither of these wells has run dry during a sampling event. Well installation activities will be conducted in accordance with Appendix S (Monitoring Well Installation and Development) in GE's March 30, 2007 Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP).

GMA 4 – Groundwater Quality Monitoring Interim Report for Fall 2007

General Electric Company Pittsfield. Massachusetts

Prior to performance of these field activities, GE will provide EPA with 7 days advance notice to allow: (1) the assignment of field oversight personnel; (2) preparations to split samples with EPA's contractor; and (3) the collection by EPA of groundwater levels at the Allendale wells in conjunction with GE's groundwater elevation monitoring activities at GMA 4 (if desired).

5.3 Reporting Schedule

GE will continue to provide the results of preliminary groundwater elevation and analytical data in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

GE will submit the spring 2008 Interim Groundwater Quality Report for GMA 4 by August 31, 2008, in accordance with the reporting schedule approved by EPA. That report will present the final, validated spring 2008 interim sampling results, including a summary of data from other groundwater-related activities conducted at GMA 4 between January 2008 and June 2008 (including any EPA-generated groundwater elevation monitoring data at the Allendale School property), a discussion of those results, and any proposals to further modify the interim monitoring program.

Tables

Table 1
Groundwater Quality Monitoring Program Summary

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield Massachusetts

Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Comments
78-1	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
78-6	GW-3 Perimeter/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007, not found during initial sampling round, found and monitored in November 2007
GMA4-6	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
H78B-15	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
H78B-16	Supplemental Well for TCE Evaluation	Annual	VOC	Sampled in Fall 2007
H78B-17R	GW-3 Perimeter (Downgradient)	Annual	VOC	Sampled in Fall 2007
OPCA-MW-1R	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007, decommissioned prior to fall 2007 monitoring. ³
OPCA-MW-2	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007, decommissioned prior to fall 2007 monitoring. ³
OPCA-MW-3	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
OPCA-MW-4	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
OPCA-MW-5R	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
OPCA-MW-6	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
OPCA-MW-7	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
OPCA-MW-8	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampled in Fall 2007
SCH-4	Supplemental Data Collection	Fall 2007	PCB/App. IX (1,2)	In advertently sampled in fall 2007 when well 78-6 was not initially found

Notes:

- 1. Appendix IX+3 analyses consists of those non-PCB constituents listed in Appendix IX of 40 CFR Part 264 excluding pesticides and herbicides) plus three constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine.
- 2. Per the interim monitoring program protocols, analyses for PCBs, metals, and cyanide performed on filtered samples only.
- 3. Monitoring wells OPCA-MW-1R and OPCA-MW-2 were decommissioned during late fall 2007 prior to the sewer line rerouting. New wells will be installed in 2008.

Table 2
Groundwater Elevation Monitoring Program Summary

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield Massachusetts

Well Number	Monitoring Schedule	Comments
60A	Semi-Annual	Well could not be located
60B-R	Semi-Annual	
78-1	Quarterly	
78-2	Quarterly	
78-3	Semi-Annual	
78-4	Semi-Annual	
78-5R	Semi-Annual	
78-6	Quarterly	Could not locate this well during the fall 2007 monitoring event; buried under mulch; this well was subsequently located and sampled
GMA4-1	Semi-Annual	
GMA4-2	Semi-Annual	
GMA4-3	Monthly	
GMA4-4	Quarterly	
GMA4-6	Quarterly	
H78B-13R	Semi-Annual	
H78B-15	Semi-Annual	
H78B-16	Semi-Annual	
H78B-17	Semi-Annual	
H78B-17R	Semi-Annual	
NY-3	Quarterly	
NY-4	Quarterly	
OPCA-MW-1R	Quarterly	This well was decommissioned prior to the fall 2007 monitoring event
OPCA-MW-2	Quarterly	This well was decommissioned prior to the fall 2007 monitoring event
OPCA-MW-3	Quarterly	
OPCA-MW-4	Quarterly	
OPCA-MW-5R	Quarterly	
OPCA-MW-6	Quarterly	
OPCA-MW-7	Quarterly	
OPCA-MW-8	Quarterly	
RF-14	Semi-Annual	
RF-15	Semi-Annual	
SCH-4	Quarterly	
UB-MW-5	Semi-Annual	Well was dry during the fall 2007 monitoring event
UB-MW-6	Semi-Annual	
East Street Area 2 -	North (Groundwater Mana	agement Area 1) adjacent to GMA 4
ES1-20	Semi-Annual	
	operty Monitoring Wells/F	Piezometers
PZ-1	Quarterly	
PZ-2	Quarterly	
PZ-3	Quarterly	
PZ-4	Quarterly	
SCH-1	Quarterly	

Note

- 1. The listed monitoring wells are monitored for groundwater elevation and NAPL presence at the frequencies
- 2. The Allendale School Property Monitor Wells/Piezometers are monitored by EPA.

Monitoring Well Construction Summary

Groundwater Quality Monitoring Interim Report for Fall 2007

Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

Table 3

Monitoring Well Number	Survey Co Northing	oordinates Easting	Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BGS)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
78-1	536143.95	136345.00	4.00	1,027.40	1,026.32	8.0	15.0	1,019.40	1,004.40
78-6	535917.90	135919.00	4.00	1,012.33	1,012.00	3.0	15.0	1,009.33	994.33
GMA4-6	535774.20	135658.40	2.00	1,009.62	1,009.12	3.0	10.0	1,006.62	996.62
H78B-15	535408.90	136705.20	0.75	1,009.80	1,012.68	6.0	10.0	1,003.80	993.80
H78B-16	535040.80	136495.50	0.75	996.00	999.33	4.0	10.0	992.00	982.00
H78B-17R	534996.00	136659.20	4.00	999.20	1,000.31	14.3	9.2	984.90	975.70
OPCA-MW-1R	535377.40	135573.90	2.00	1,016.97	1,016.46	10.0	15.0	1,006.97	991.97
OPCA-MW-2	535180.57	135917.60	2.00	1,017.30	1,019.58	13.0	10.0	1,004.30	994.30
OPCA-MW-3	535299.60	136188.90	2.00	1,015.30	1,014.83	18.0	10.0	997.30	987.30
OPCA-MW-4	535570.22	136222.55	2.00	1,019.20	1,018.67	12.0	10.0	1,007.20	997.20
OPCA-MW-5R	535630.68	136477.98	2.00	1,016.64	1,016.34	11.25	10.0	1,005.39	995.39
OPCA-MW-6	535449.44	136901.92	2.00	1,022.70	1,022.31	15.0	10.0	1,007.70	997.70
OPCA-MW-7	535673.73	136835.86	2.00	1,026.90	1,026.57	14.0	10.0	1,012.90	1,002.90
OPCA-MW-8	535989.21	136679.68	2.00	1,027.90	1,027.40	13.5	10.0	1,014.40	1,004.40
SCH-4	535377.40	135573.90	2.00	1,012.27	1,014.05	7.9	10.0	1,004.37	994.37

Table 3
Monitoring Well Construction Summary

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield Massachusetts

Monitoring	Survey Co	oordinates	Well	Ground Surface	Measuring Point	Depth to Top	Screen	Top of Screen	Base of Screen	
Well Number	Northing	Easting	Diameter (in)	Elevation (ft AMSL)	Elevation (ft AMSL)	of Screen (ft BGS)	Length (ft)	Elevation (ft AMSL)	Elevation (ft AMSL)	
East Street Area 2	East Street Area 2 - North (Groundwater Management Area 1) adjacent to GMA 4									
ES1-20	535314.82	134924.90	0.75	997.82	1,001.56	6.0	10.0	991.82	981.82	
Allendale School F	Property Monito	ring Wells/Piez	ometers adjacei	nt to GMA 4						
PZ-1	535900.23	135753.22	NA	NA	1005.60	NA	NA	NA	NA	
PZ-2	536112.14	135563.58	NA	NA	1009.89	NA	NA	NA	NA	
PZ-3	536396.28	135728.63	NA	NA	1010.43	NA	NA	NA	NA	
PZ-4	536116.06	136119.15	NA	NA	1007.96	NA	NA	NA	NA	
SCH-1	536574.57	135606.24	NA	NA	1017.11	NA	NA	NA	NA	

NOTES:

- 1. ft AMSL Feet above mean sea level
- 2. ft BGS Feet below ground surface
- 3. NA Information not available.
- 4. ES1-20 is located in Groundwater Management Area 1, but also utilized as part of the GMA 4 groundwater elevation monitoring program.

Table 4
Groundwater Elevation Data - Summer/Fall 2007

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield Massachusetts

Well Number	Date Measured	Groundwater Elevation (1)
Summer 2007 Monitoring E	vent	
78-1	7/10/2007	1,015.92
78-2	7/10/2007	1,025.76
GMA4-3	7/10/2007	986.15
GMA4-4	7/10/2007	986.80
GMA4-6	7/10/2007	1,000.20
NY-3	7/10/2007	990.08
NY-4	7/10/2007	1,013.83
OPCA-MW-1R	7/10/2007	1,012.54
OPCA-MW-2	7/10/2007	1,001.18
OPCA-MW-3	7/10/2007	995.03
OPCA-MW-4	7/10/2007	1,006.24
OPCA-MW-5R	7/10/2007	1,004.89
OPCA-MW-6	7/10/2007	1,004.90
OPCA-MW-7	7/10/2007	1,010.97
OPCA-MW-8	7/10/2007	1,016.70
SCH-4	7/10/2007	1,004.75
East Street Area 2 - North adja	cent to GMA 4	
ES1-20	7/17/2007	986.94
Fall 2007 Monitoring Event		
060B-R	10/31/2007	985.77
78-1	10/31/2007	1,013.92
78-2	10/31/2007	1,022.11
78-3	10/31/2007	988.38
78-4	10/31/2007	985.75
78-5R	10/31/2007	992.02
GMA4-1	10/31/2007	988.59
GMA4-2	10/31/2007	992.58
GMA4-3	10/31/2007	985.42
GMA4-4	10/31/2007	985.53
GMA4-5	10/31/2007	980.88
GMA4-6	10/31/2007	999.98
H78B-13R	10/31/2007	980.29
H78B-15	10/31/2007	997.28
H78B-16	10/31/2007	986.53
H78B-17	10/31/2007	985.79
H78B-17R	10/31/2007	986.55
NY-3	10/31/2007	988.64

Table 4
Groundwater Elevation Data - Summer/Fall 2007

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield Massachusetts

Well Number	Date Measured	Groundwater Elevation (1)
NY-4	10/31/2007	1,010.71
OPCA-MW-3	10/31/2007	992.88
OPCA-MW-4	10/31/2007	1,005.02
OPCA-MW-5R	10/31/2007	1,002.36
OPCA-MW-6	10/31/2007	1,002.51
OPCA-MW-7	10/31/2007	1,003.69
OPCA-MW-8	10/31/2007	1,013.10
RF-14	10/31/2007	990.44
RF-15	10/31/2007	1,004.12
SCH-4	10/31/2007	1,004.47
UB-MW-5	10/31/2007	<990.62
UB-MW-6	10/31/2007	997.11
East Street Area 2 - North adja	acent to GMA 4	
ES1-20	10/31/2007	985.78

Notes:

- 1. The elevation shown is in feet above mean sea level.
- 2. The data shown above was utilized in the preparation of the summer 2007 and fall 2007 groundwater elevation contour maps for GMA 4. Other groundwater elevation data collected from July to December 2007 is provided in Appendix E.

Table 5
Field Parameter Measurements -Fall 2007

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Mamangement Area 4 General Electric Company- Pittsfield, Massachusetts

Well Number	Temperature (deg. C)	pH (SU)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation- Reduction Potential (mV)
78-1	14.74	6.86	1.081	2	0.85	206.9
78-6	13.34	6.85	1.813	47	0.69	-27.3
GMA4-6	15.00	6.90	1.319	1	0.33	111.7
H78B-15	14.33	6.59	2.273	9	6.70	146.1
H78B-16	13.74	5.89	1.161	2	1.21	205.8
H78B-17R	12.86	NA ⁹	1.425	4	4.77	209.7
OPCA-MW-1R	19.39	9.82	6.661	3	4.71	93.7
OPCA-MW-2	14.66	7.45	1.691	2	5.46	150.4
OPCA-MW-3	14.50	7.10	0.736	2	0.90	170.3
OPCA-MW-4	15.18	7.18	1.261	2	3.18	134.2
OPCA-MW-5R	15.46	7.07	0.637	4	1.11	68.3
OPCA-MW-6	11.60	7.10	1.359	20	23.00	163.1
OPCA-MW-7 ⁽⁸⁾	13.33	6.49	5.83	23	2.97	257.00
OPCA-MW-8	15.03	7.56	0.946	14	7.93	218.00
SCH-4 ⁽¹⁰⁾	16.90	6.71	1.995	9	0.78	-57.10

Notes:

- 1. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
- 2. NTU Nephelometric Turbidity Units
- 3. deg. C Degrees Celsius
- 4. SU Standard Units
- 5. mS/cm Millisiemens per centimeter
- 6. mV Millivolts
- 7. mg/L Milligrams per liter (ppm)
- 8. Well became dry prior to collection of groundwater samples. Sampling was initiated on the following day after recharge of well. The listed field parameter data was collected prior to sampling after recharge. Well again went dry during first sampling; Sampling was completed on the following day.
- 9. The sampling logs for Well H78B-17R reported a pH reading of >14. This is assumed to be a meter malfunction.
- 10. Well SCH-4 was inadvertently monitored instead of well 78-6 in October 2007

Table 6
Comparison of Groundwater Analytical Results to MCP Method 1 GW-2 Standards

Sample ID	: Method 1 GW-2	H78B-15	OPCA-MW-1R	OPCA-MW-4	OPCA-MW-5R
Parameter Date Collected	: Standards	10/10/07	10/05/07	10/09/07	10/09/07
Volatile Organics					
1,1,1-Trichloroethane	4	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	1	0.00010 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	0.005	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	50	0.0031 J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Chlorobenzene	0.2	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00024 J
Tetrachloroethene	0.05	ND(0.0010)	0.015	ND(0.0010)	ND(0.0010)
Toluene	8	ND(0.0010)	ND(0.0010)	0.00032 J	0.00011 J
trans-1,2-Dichloroethene	0.09	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	0.03	0.00023 J	ND(0.0010)	0.0017	ND(0.0010)
Trichlorofluoromethane	Not Listed	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	0.002	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs	5	0.0034 J	0.015	0.0020 J	0.00035 J
Semivolatile Organics					
None Detected					

Notes:

- Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3
 constituents.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
- 3. Only volatile and semivolatile analysis is presented for the MCP Method 1 GW-2 Standards Comparison.
- 4. NA Not Analyzed.
- 5. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 6. Only those constituents detected in one or more samples are summarized.
- 7. -- Indicates that all constituents for the parameter group were not detected.
- 8. Total VOCs are being compared to the notification level in the SOW of 5 ppm, as there is no GW-2 standards for Total VOCs.

Data Qualifiers:

Organics (volatiles, semivolatiles)

J - Indicates that the associated numerical value is an estimated concentration.

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

	Sample ID:	Method 1 GW-3	78-1	78-6	GMA4-6
Parameter I	Date Collected:	Standards	10/09/07	11/13/07	10/08/07
Volatile Organic	s				
1,1,1-Trichloroeth	ane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethan	ne	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethan	ne	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone		50	0.0023 J	0.0014 J	ND(0.0050) J
Bromoform		50	0.00048 J	ND(0.0010)	ND(0.0010)
Chlorobenzene		1	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloric		50	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	е	30	ND(0.0010)	ND(0.0010) J	ND(0.0010)
Toluene		4	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichloro	pethene	50	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene		5	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluorome	thane	Not Listed	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride		50	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered	Ī		1	I	1
Aroclor-1254		Not Listed	ND(0.00010)	ND(0.000065)	ND(0.00010)
Aroclor-1260		Not Listed	ND(0.00010)	ND(0.000065)	ND(0.00010)
Total PCBs		0.0003	ND(0.00010)	ND(0.000065)	ND(0.00010)
Semivolatile Org			115(0.040)	ND(2.222)	ND (0.040)
bis(2-Ethylhexyl)p		0.03	ND(0.010)	ND(0.0050)	ND(0.010)
Dimethylphthalate	Э	50	ND(0.010)	0.00060 J 0.0016 J	ND(0.010)
Naphthalene		20	ND(0.010)	0.0016 J	ND(0.010)
Furans	ı	N. alla a l	ND (2 2222222)	ND (2 222222242)	ND (2 2222222)
2,3,7,8-TCDF		Not Listed	ND(0.000000018)	ND(0.0000000042)	ND(0.0000000026)
TCDFs (total)		Not Listed	0.00000012 J	0.0000000076 J	0.000000023 J
1,2,3,7,8-PeCDF		Not Listed	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000050)
2,3,4,7,8-PeCDF PeCDFs (total)		Not Listed Not Listed	ND(0.000000050) 0.00000034 J	ND(0.000000052) ND(0.000000052)	ND(0.000000050) 0.000000076 J
1,2,3,4,7,8-HxCD	_	Not Listed	ND(0.00000050)	ND(0.0000000052)	ND(0.000000050)
1,2,3,6,7,8-HxCD		Not Listed	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000050)
1,2,3,0,7,8-HxCD		Not Listed	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000050)
2,3,4,6,7,8-HxCD		Not Listed	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000050)
HxCDFs (total)	1	Not Listed	0.000000000000000000000000000000000000	ND(0.0000000052)	ND(0.0000000050)
1,2,3,4,6,7,8-HpC	:DF	Not Listed	ND(0.00000000000000000000000000000000000	ND(0.0000000052)	ND(0.0000000000)
1,2,3,4,7,8,9-HpC		Not Listed	ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000000)
HpCDFs (total)		Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.0000000050)
OCDF		Not Listed	ND(0.000000010)	ND(0.000000011)	ND(0.00000010)
Dioxins			(,	(
2,3,7,8-TCDD		Not Listed	ND(0.000000012)	ND(0.000000037)	ND(0.000000034)
TCDDs (total)		Not Listed	ND(0.000000012)	ND(0.000000037)	ND(0.000000034)
1,2,3,7,8-PeCDD		Not Listed	ND(0.000000050)	ND(0.0000000052)	ND(0.000000050)
PeCDDs (total)		Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
1,2,3,4,7,8-HxCD	D	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
1,2,3,6,7,8-HxCD	D	Not Listed	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000050)
1,2,3,7,8,9-HxCD	D	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
HxCDDs (total)		Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
1,2,3,4,6,7,8-HpC	DD	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
HpCDDs (total)		Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
OCDD		Not Listed	ND(0.00000010)	ND(0.000000011)	ND(0.00000010)
Total TEQs (WHO		0.000001	0.0000000064	0.0000000080	0.0000000075
Inorganics-Filter	ed				
Arsenic		0.9	ND(0.0100) J	0.00588 J	ND(0.0100) J
Barium		50	0.0172 B	0.0667 B	0.00701 B
Beryllium		0.05	ND(0.0100) J	0.000850 J	ND(0.0100) J
Nickel		0.2	ND(0.0100)	ND(0.0100)	0.00564 B
Thallium		3	ND(0.0100)	ND(0.0100) J	0.00652 B
Tin		Not Listed	ND(0.0100)	ND(0.0100) J	ND(0.0100)
Zinc		0.9	0.00586 B	ND(0.0200)	0.0123 B

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

Sample ID: Parameter Date Collected:	Method 1 GW-3 Standards	H78B-15 10/10/07	H78B-16 10/10/07	H78B-17R 10/11/07	OPCA-MW-1R 10/05/07
Volatile Organics	0141144140	10,10,01	10/10/01	10/11/01	19,00,01
1,1,1-Trichloroethane	20	ND(0.0010)	0.0014	ND(0.010)	ND(0.0010)
1,1-Dichloroethane	20	0.00010 J	0.00046 J	ND(0.010)	ND(0.0010)
1.2-Dichloroethane	20	ND(0.0010)	0.00033 J	ND(0.010)	ND(0.0010)
Acetone	50	0.0031 J	ND(0.0050) J	ND(0.050) J	ND(0.0050) J
Bromoform	50	ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0010)
Chlorobenzene	1	ND(0.0010)	0.00051 J	ND(0.010)	ND(0.0010)
Methylene Chloride	50	ND(0.0050)	ND(0.0050)	0.0044 J	ND(0.0050)
Tetrachloroethene	30	ND(0.0010)	0.00024 J	0.0025 J	0.015
Toluene	4	ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0010)
trans-1,2-Dichloroethene	50	ND(0.0010)	0.00030 J	0.0017 J	ND(0.0010)
Trichloroethene	5	0.00023 J	0.021	0.10	ND(0.0010)
Trichlorofluoromethane	Not Listed	ND(0.0010)	0.00041 J	ND(0.010)	ND(0.0010)
Vinyl Chloride	50	ND(0.0010)	0.00067 J	ND(0.010)	ND(0.0010)
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	NA	ND(0.00010)
Aroclor-1260	Not Listed	ND(0.000065)	NA	NA	ND(0.00010)
Total PCBs	0.0003	ND(0.000065)	NA	NA	ND(0.00010)
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	0.03	ND(0.010)	NA	NA	ND(0.010)
Dimethylphthalate	50	ND(0.010)	NA	NA	ND(0.010)
Naphthalene	20	ND(0.010)	NA	NA	ND(0.010)
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.000000017)	NA	NA	0.0000000025 J
TCDFs (total)	Not Listed	ND(0.000000017)	NA	NA	0.00000035 J
1,2,3,7,8-PeCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
PeCDFs (total)	Not Listed	ND(0.000000052)	NA	NA	0.00000031 J
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
HxCDFs (total)	Not Listed	ND(0.0000000052)	NA	NA	0.0000014
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000052)	NA	NA	ND(0.000000050)
HpCDFs (total)	Not Listed	ND(0.0000000052)	NA	NA	ND(0.0000000050)
OCDF	Not Listed	ND(0.00000011)	NA	NA	ND(0.00000010)
Dioxins		1	1	1	T
2,3,7,8-TCDD	Not Listed	ND(0.0000000020)	NA	NA	ND(0.000000013)
TCDDs (total)	Not Listed	ND(0.0000000020)	NA NA	NA NA	ND(0.000000013)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000052)	NA	NA	ND(0.0000000050)
PeCDDs (total)	Not Listed	ND(0.0000000052)	NA NA	NA NA	ND(0.0000000050)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000052)	NA NA	NA NA	ND(0.000000050)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.000000052)	NA NA	NA NA	ND(0.0000000050)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000052)	NA NA	NA NA	ND(0.000000050) ND(0.000000050)
HxCDDs (total) 1,2,3,4,6,7,8-HpCDD	Not Listed Not Listed	ND(0.000000052) ND(0.000000052)	NA NA	NA NA	ND(0.0000000050)
HpCDDs (total)	Not Listed Not Listed	ND(0.000000052)	NA NA	NA NA	ND(0.0000000050)
OCDD (total)	Not Listed	ND(0.000000052)	NA NA	NA NA	ND(0.0000000000)
Total TEQs (WHO TEFs)	0.000001	0.0000000011)	NA NA	NA NA	0.0000000010)
Inorganics-Filtered	0.000001	0.000000010	1477	INA	0.000000000
Arsenic	0.9	0.00346 B	NA	NA	ND(0.0100)
Barium	50	0.00346 B 0.0546 B	NA NA	NA NA	ND(0.0100) ND(0.107)
Beryllium	0.05	ND(0.0100)	NA NA	NA NA	ND(0.107)
Nickel	0.05	ND(0.0100) ND(0.0100)	NA NA	NA NA	ND(0.0100) J
Thallium	3	ND(0.0100) ND(0.0100) J	NA NA	NA NA	ND(0.0100) 3 ND(0.0100)
Tin	Not Listed	ND(0.0100) 3	NA NA	NA NA	ND(0.0100)
Zinc	0.9	0.194	NA NA	NA NA	ND(0.100) 3 ND(0.0200)
LIIIU	0.9	0.194	INA	INA	ND(0.0200)

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

	Sample ID:	Method 1 GW-3	OPCA-MW-2	OPCA-MW-3
Parameter	Date Collected:	Standards	10/08/07	10/09/07
Volatile Orgai	nics			
1,1,1-Trichloro	ethane	20	0.00013 J [0.00013 J]	ND(0.0010)
1,1-Dichloroetl		20	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroetl	hane	20	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Acetone		50	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Bromoform		50	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene		1	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Methylene Chl		50	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroeth	ene	30	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene		4	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,2-Dich		50	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichloroethen		5	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichlorofluoro	methane	Not Listed	0.00040 J [0.00041 J]	ND(0.0010)
Vinyl Chloride		50	ND(0.0010) [ND(0.0010)]	ND(0.0010)
PCBs-Filtered	1			
Aroclor-1254		Not Listed	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Aroclor-1260		Not Listed	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Total PCBs		0.0003	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Semivolatile (
bis(2-Ethylhex		0.03	ND(0.010) [ND(0.010)]	ND(0.010)
Dimethylphtha	late	50	ND(0.010) [ND(0.010)]	ND(0.010)
Naphthalene		20	ND(0.010) [ND(0.010)]	ND(0.010)
Furans				
2,3,7,8-TCDF		Not Listed	ND(0.000000014) [ND(0.000000015) X]	ND(0.000000015)
TCDFs (total)		Not Listed	0.000000036 J [0.00000050 J]	ND(0.000000015)
1,2,3,7,8-PeCI		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
2,3,4,7,8-PeCI		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
PeCDFs (total)		Not Listed	0.00000016 J [0.000000049 J]	ND(0.0000000050)
1,2,3,4,7,8-Hx		Not Listed	ND(0.0000000050) [0.0000000055 J]	ND(0.0000000050)
1,2,3,6,7,8-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
1,2,3,7,8,9-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
2,3,4,6,7,8-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
HxCDFs (total)		Not Listed Not Listed	ND(0.0000000050) [0.000000017 J] ND(0.0000000050) [ND(0.000000051)]	ND(0.000000050) ND(0.000000050)
1,2,3,4,0,7,8-F		Not Listed	ND(0.00000000000) [ND(0.0000000001)]	ND(0.0000000050)
HpCDFs (total		Not Listed	ND(0.00000000000) [ND(0.00000000051)]	ND(0.0000000050)
OCDF)	Not Listed	ND(0.0000000000) [ND(0.0000000001)]	ND(0.0000000000)
Dioxins		NOT LISTED	[ND(0.000000010) [ND(0.000000010)]	145(0.000000010)
2,3,7,8-TCDD		Not Listed	ND(0.0000000014) [ND(0.0000000018) X]	ND(0.000000017)
TCDDs (total)		Not Listed	ND(0.0000000014) [ND(0.0000000015) X]	ND(0.0000000017)
1,2,3,7,8-PeCI	חח	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000017)
PeCDDs (total)	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000000)
1,2,3,4,7,8-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000000)
1,2,3,6,7,8-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000000)
1,2,3,7,8,9-Hx		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
HxCDDs (total		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
1,2,3,4,6,7,8-H		Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
HpCDDs (total	•	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
OCDD		Not Listed	ND(0.00000010) [0.000000015 J]	ND(0.00000010)
Total TEQs (W	/HO TEFs)	0.0000001	0.0000000065 [0.0000000071]	0.000000067
Inorganics-Fi	Itered			•
Arsenic		0.9	ND(0.0100) J [ND(0.0100) J]	ND(0.0100)
Barium		50	0.0144 B [0.0128 B]	0.0620 B
Beryllium		0.05	ND(0.0100) J [ND(0.0100) J]	0.000330 B
Nickel		0.2	0.00638 B [ND(0.0100)]	ND(0.0100)
Thallium		3	ND(0.0100) [ND(0.0100)]	ND(0.0100) J
Tin		Not Listed	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Zinc		0.9	ND(0.0200) [ND(0.0200)]	ND(0.0200)
			• • • • • • • • • • • • • • • • • • • •	

Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

	Sample ID:	Method 1 GW-3	OPCA-MW-4	OPCA-MW-5R	OPCA-MW-6
Parameter	Date Collected:	Standards	10/09/07	10/09/07	10/15/07
Volatile Organ					
1,1,1-Trichloro		20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroeth		20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroeth	nane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone		50	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform		50	ND(0.0010)	ND(0.0010)	ND(0.0010) J
Chlorobenzene	Э	1	ND(0.0010)	0.00024 J	ND(0.0010)
Methylene Chl	oride	50	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroeth	ene	30	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene		4	0.00032 J	0.00011 J	ND(0.0010)
trans-1,2-Dichl	oroethene	50	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethen		5	0.0017	ND(0.0010)	ND(0.0010)
Trichlorofluoro	methane	Not Listed	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride		50	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered					
Aroclor-1254		Not Listed	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1260		Not Listed	ND(0.000065)	ND(0.00010)	ND(0.000065)
Total PCBs		0.0003	ND(0.000065)	ND(0.00010)	ND(0.000065)
Semivolatile (
bis(2-Ethylhexy		0.03	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphtha	late	50	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		20	ND(0.010)	ND(0.010)	ND(0.010)
Furans					
2,3,7,8-TCDF		Not Listed	ND(0.0000000020)	0.000000076 J	ND(0.0000000021)
TCDFs (total)		Not Listed	ND(0.0000000020)	0.00000069 J	ND(0.0000000021)
1,2,3,7,8-PeC[Not Listed	ND(0.000000052)	ND(0.000000052) J	ND(0.000000052)
2,3,4,7,8-PeC[Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
PeCDFs (total)		Not Listed	ND(0.0000000056)	0.00000090 J	ND(0.000000052)
1,2,3,4,7,8-Hx		Not Listed	ND(0.000000052)	0.00000053	ND(0.000000052)
1,2,3,6,7,8-Hx		Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-Hx		Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
2,3,4,6,7,8-Hx		Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
HxCDFs (total)		Not Listed	ND(0.0000000052)	0.00000042 J	ND(0.0000000052)
1,2,3,4,6,7,8-H		Not Listed	ND(0.0000000052)	ND(0.0000000052)	0.0000000052 J
1,2,3,4,7,8,9-H		Not Listed Not Listed	ND(0.000000052) ND(0.000000052)	ND(0.000000052) ND(0.000000052)	ND(0.000000052) 0.000000052 J
HpCDFs (total))	Not Listed	ND(0.0000000052)	ND(0.000000032)	0.0000000032 J
Dioxins		Not Listed	14D(0.000000010)	11D(0.00000010)	0.0000000133
2,3,7,8-TCDD	-	Not Listed	ND(0.0000000025)	ND(0.000000014)	ND(0.0000000028)
TCDDs (total)		Not Listed	ND(0.0000000025)	ND(0.000000014)	ND(0.0000000028)
1,2,3,7,8-PeC[חר	Not Listed	ND(0.0000000052)	ND(0.000000014)	ND(0.0000000052)
PeCDDs (total		Not Listed	ND(0.0000000052)	ND(0.0000000052) J	ND(0.0000000052)
1,2,3,4,7,8-Hx		Not Listed	ND(0.0000000052)	ND(0.0000000052) 3	ND(0.000000052)
1,2,3,6,7,8-Hx(Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-Hx		Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
HxCDDs (total		Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,4,6,7,8-H		Not Listed	ND(0.0000000052)	ND(0.000000052)	ND(0.0000000052)
HpCDDs (total		Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.0000000052)
OCDD	,	Not Listed	ND(0.000000010)	0.00000018 J	0.000000016 J
Total TEQs (W	/HO TEFs)	0.0000001	0.0000000073	0.00000012	0.000000074
Inorganics-Fil	,			•	
Arsenic		0.9	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium		50	0.0270 B	0.0536 B	ND(0.500)
Beryllium		0.05	0.00373 B	0.000330 B	0.00366 J
Nickel		0.2	ND(0.0100)	ND(0.0100)	ND(0.0500)
Thallium		3	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Tin		Not Listed	ND(0.0100)	ND(0.0100)	0.00939 J
Zinc		0.9	0.0100 B	0.00813 B	0.0196 B
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Table 7
Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

Sample ID:	Method 1 GW-3	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter Date Collected:	Standards	10/11-10/18/2007	10/11/07	10/08/07
Volatile Organics				
1,1,1-Trichloroethane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	20	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	50	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform	50	ND(0.0010) J	ND(0.0010) J	ND(0.0010)
Chlorobenzene	1	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chloride	50	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	30	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	4	0.00029 J	ND(0.0010)	0.00010 J
trans-1,2-Dichloroethene	50	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethene	5	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	Not Listed	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	50	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered				
Aroclor-1254	Not Listed	0.0012	ND(0.00010)	ND(0.00010)
Aroclor-1260	Not Listed	0.00091	ND(0.00010)	ND(0.00010)
Total PCBs	0.0003	0.00211	ND(0.00010)	ND(0.00010)
Semivolatile Organics		1		
bis(2-Ethylhexyl)phthalate	0.03	ND(0.010)	0.0017 J	ND(0.010)
Dimethylphthalate	50	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	20	ND(0.010)	ND(0.010)	ND(0.010)
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000035)	ND(0.0000000026)	ND(0.000000017)
TCDFs (total)	Not Listed	ND(0.0000000035)	ND(0.0000000026)	0.00000012 J
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.000000053)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000054)	ND(0.000000050)	ND(0.000000053)
PeCDFs (total)	Not Listed	ND(0.000000054)	ND(0.0000000050)	0.000000039 J
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000054)	ND(0.000000050)	0.0000000079 J
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
HxCDFs (total)	Not Listed	ND(0.0000000054)	ND(0.0000000050)	0.000000016 J
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,4,7,8,9-HpCDF HpCDFs (total)	Not Listed Not Listed	ND(0.000000054) ND(0.000000054)	ND(0.000000050) ND(0.000000050)	ND(0.000000053) ND(0.000000053)
OCDF (total)	Not Listed	ND(0.000000004)	ND(0.00000000000)	ND(0.000000003)
Dioxins	NOI LISIEU	ND(0.000000011)	ND(0.000000010)	14D(0.000000011)
	Not Listed	ND(0.00000004E)	ND(0.00000000000)	ND(0.000000014)
2,3,7,8-TCDD TCDDs (total)	Not Listed Not Listed	ND(0.0000000045) ND(0.0000000045)	ND(0.000000032) ND(0.000000032)	ND(0.000000014) ND(0.000000014)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000043)	ND(0.0000000052)	ND(0.000000014)
PeCDDs (total)	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,4,7,8-HxCDD	Not Listed Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000033)
HxCDDs (total)	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000054)	ND(0.0000000059)	ND(0.0000000033)
HpCDDs (total)	Not Listed	ND(0.0000000054)	ND(0.0000000059)	ND(0.0000000033)
OCDD	Not Listed	0.00000000034)	0.000000000000000000000000000000000000	ND(0.0000000011)
Total TEQs (WHO TEFs)	0.0000001	0.0000000186	0.000000025	0.0000000074
Inorganics-Filtered	-			
Arsenic	0.9	ND(0.0100)	ND(0.0100)	ND(0.0100) J
Barium	50	0.0869 B	ND(0.100)	0.0676 B
Beryllium	0.05	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Nickel	0.2	ND(0.0100) 0	ND(0.0100)	0.00510 B
Thallium	3	ND(0.0100) J	ND(0.0100) J	ND(0.0100)
Tin	Not Listed	ND(0.100) J	ND(0.100) J	ND(0.0100)
Zinc	0.9	0.0208	0.00726 B	0.290
	0.0	0.0200	0.00720 D	0.200

Table 7

Comparison of Groundwater Analytical Results to MCP Method 1 GW-3 Standards

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Notes:

- Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3
 constituents.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- 5. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
- 6. Field duplicate sample results are presented in brackets.
- 7. Shading indicates that value exceeds the Method 1 GW-3 Standards.
- 8. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

		Sample ID:	MCP UCL	78-1	78-6	GMA4-6
Volatile Organics	Parameter	•				
11,1-11-inforcerbane						
1,2-Dichloroethane			100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	1,1-Dichloroeth	ane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bittomoform	1,2-Dichloroeth	ane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene	Acetone		100	0.0023 J	0.0014 J	ND(0.0050) J
Methylene Chloride	Bromoform		100	0.00048 J	ND(0.0010)	ND(0.0010)
Tetrachloroethene	Chlorobenzene		10	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene 80	Methylene Chlo	oride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)
	Tetrachloroethe	ene	100	ND(0.0010)	ND(0.0010) J	ND(0.0010)
Trichlororethene	Toluene		80	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	trans-1,2-Dichlo	oroethene				
Virry Choide	Trichloroethene)	50			
PCBs-Filtered Arcolor-1254 Not Listed ND(0.00010) ND(0.000065) ND(0.00010) Arcolor-1250 Not Listed ND(0.00010) ND(0.000065) ND(0.00010) Arcolor-1250 Not Listed ND(0.00010) ND(0.000065) ND(0.00010) Semivolatile Organics Dis(2-Filty)Phihasy) phihasite 100 ND(0.010) ND(0.000065) ND(0.0010) ND(0.010) ND(0.000065) ND(0.0010) ND(0.010) ND(0.00000) ND(0.010) ND(0.010) ND(0.010) ND(0.00000) ND(0.010) ND(0.016 J ND(0.010) ND(0.010) ND(0.010) ND(0.016 J ND(0.010) ND(0.010) ND(0.010) ND(0.000000022) ND(0.000000028) ND(0.000000005) ND(0		nethane	Not Listed		(/	
Arcolor-1254			100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Not Listed Not Description	PCBs-Filtered					
Total PCBs	Aroclor-1254		Not Listed	ND(0.00010)	ND(0.000065)	ND(0.00010)
Semivolatile Organics 100	Aroclor-1260					
Directhylphthalate	Total PCBs		0.005	ND(0.00010)	ND(0.000065)	ND(0.00010)
Dimethylphthalate	Semivolatile C	rganics				
Naphthalene 100	bis(2-Ethylhexy	rl)phthalate		ND(0.010)	ND(0.0050)	ND(0.010)
Furans	Dimethylphthala	ate	100	ND(0.010)	0.00060 J	ND(0.010)
2,3,7,8,PECPF Not Listed ND(0.000000018) ND(0.000000023) ND(0.00000023) ND(0.00000023) ND(0.00000023) ND(0.000000023) ND(0.000000023) ND(0.000000023) ND(0.000000005) ND(0.00000005) ND(Naphthalene		100	ND(0.010)	0.0016 J	ND(0.010)
TCDFs (total)	Furans					
1,2,3,7,8-PeCDF	2,3,7,8-TCDF		Not Listed	ND(0.000000018)	ND(0.0000000042)	ND(0.000000026)
Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050)	TCDFs (total)		Not Listed	0.00000012 J	0.0000000076 J	0.000000023 J
PeCDFs (total)	1,2,3,7,8-PeCD)F	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
1,2,3,4,7,8-HxCDF	2,3,4,7,8-PeCD	F	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
1,2,3,6,7,8-HxCDF	PeCDFs (total)		Not Listed	0.00000034 J	ND(0.0000000052)	0.000000076 J
1,2,3,7,8,9-HxCDF	1,2,3,4,7,8-HxC	DF	Not Listed	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)
2,3,4,6,7,8-HxCDF	1,2,3,6,7,8-HxC	DF	Not Listed	ND(0.000000050)	ND(0.0000000052)	ND(0.000000050)
HxCDFs (total)	1,2,3,7,8,9-HxC	DF	Not Listed			
1,2,3,4,6,7,8-HpCDF		DF	Not Listed		ND(0.000000052)	
1,2,3,4,7,8,9-HpCDF			Not Listed	0.00000010 J	ND(0.000000052)	ND(0.000000050)
HpCDFs (total)				,	,	
Not Listed ND(0.00000010) ND(0.00000011) ND(0.000000010)		pCDF		,	,	,
Dioxins Property						
Not Listed ND(0.000000012) ND(0.000000037) ND(0.0000000034)			Not Listed	ND(0.00000010)	ND(0.000000011)	ND(0.000000010)
TCDDs (total)						
1,2,3,7,8-PeCDD	2,3,7,8-TCDD			,	,	,
Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,7,8-HxCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,6,7,8-HxCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,7,8,9-HxCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,7,8,9-HxCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD Not Listed ND(0.0000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.00000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.00000052) ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.000000052) ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.000000050) ND(0.000000052) ND(0.0000000050) ND(0.000000052) ND(0.00000000000000000000000000000000000				,	,	(
1,2,3,4,7,8-HxCDD		D				
Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,7,8,9-HxCDD Not Listed ND(0.000000050) ND(0.0000000052) ND(0.000000050) 1,2,3,7,8,9-HxCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.000000052) ND(0.000000052) ND(0.000000050) 1,2,3,4,6,7,8-HpCDD ND(0.000000052) ND(0.000000052) ND(0.000000052) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) ND(0.0000000052) ND(0.000000052) 1,2,3,4,6,7,8-HpCDD ND(0.00000000052) ND(0.0000000052) ND(0.000000052) 1,2,3,4,6,7,8-HpCDD ND(0.00000000000000000000000000000000000				1	,	
Not Listed ND(0.000000050) ND(0.000000052) ND(0.0000000050)				,	,	,
Not Listed ND(0.000000050) ND(0.000000052) ND(0.0000000050) 1,2,3,4,6,7,8-HpCDD Not Listed ND(0.000000050) ND(0.000000052) ND(0.0000000050) ND(0.0000000052) ND(0.000000050) ND(0.0000000052) ND(0.0000000050) ND(0.0000000052) ND(0.0000000050) ND(0.0000000052) ND(0.0000000050) ND(0.0000000052) ND(0.0000000050) ND(0.0000000052) ND(0.0000000050) ND(0.0000000010) ND(0.000000011) ND(0.000000010) ND(0.000000011) ND(0.000000010) ND(0.0000000010) ND(0.0000000080 0.0000000075 ND(0.000000080 0.0000000080 0.0000000075 ND(0.0000000080 0.0000000080 0.0000000075 ND(0.0000000080 0.0000000080 0.0000000075 ND(0.0100) J 0.00588 J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J ND(0.0100) J 0.00652 B ND(0.0100) ND(0.0100) J ND(0.0100) J ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) J ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100) ND(0.0100				` ,	,	` '
1,2,3,4,6,7,8-HpCDD				` ,		` '
Not Listed ND(0.000000050) ND(0.000000052) ND(0.0000000050)				,		,
OCDD Not Listed ND(0.00000010) ND(0.000000011) ND(0.000000010) Total TEQs (WHO TEFs) 0.000001 0.0000000064 0.0000000080 0.0000000075 Inorganics-Unfiltered (sulfide) Inorganics-Filtered Arsenic 9 ND(0.0100) J 0.00588 J ND(0.0100) J Barium 100 0.0172 B 0.0667 B 0.00701 B Beryllium 0.5 ND(0.0100) J 0.00850 J ND(0.0100) J Nickel 2 ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J ND(0.0100) Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)	, , , , , ,					
Total TEQs (WHO TEFs) 0.000001 0.0000000064 0.0000000080 0.0000000075 Inorganics-Unfiltered (sulfide) Inorganics-Filtered Arsenic 9 ND(0.0100) J 0.00588 J ND(0.0100) J Barium 100 0.0172 B 0.0667 B 0.00701 B Beryllium 0.5 ND(0.0100) J 0.000850 J ND(0.0100) J Nickel 2 ND(0.0100) ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J ND(0.0100) J ND(0.0100) Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100) J						
None Detected 1		UO TEE-)				
None Detected			0.000001	0.000000064	0.000000080	0.000000075
ND(0.0100) J	- J			Γ	I	
Arsenic 9 ND(0.0100) J 0.00588 J ND(0.0100) J Barium 100 0.0172 B 0.0667 B 0.00701 B Beryllium 0.5 ND(0.0100) J 0.000850 J ND(0.0100) J Nickel 2 ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J 0.00652 B Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)						
Barium 100 0.0172 B 0.0667 B 0.00701 B Beryllium 0.5 ND(0.0100) J 0.000850 J ND(0.0100) J Nickel 2 ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J 0.00652 B Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)		ered				
Beryllium 0.5 ND(0.0100) J 0.000850 J ND(0.0100) J Nickel 2 ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J 0.00652 B Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)	Arsenic					,
Nickel 2 ND(0.0100) ND(0.0100) 0.00564 B Thallium 30 ND(0.0100) ND(0.0100) J 0.00652 B Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)	Barium					
Thallium 30 ND(0.0100) ND(0.0100) J 0.00652 B Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)				` '		, , ,
Tin Not Listed ND(0.0100) ND(0.0100) J ND(0.0100)	Nickel					
				` ,	` ,	
Zinc 50 0.00586 B ND(0.0200) 0.0123 B	Tin			`	, ,	
	Zinc		50	0.00586 B	ND(0.0200)	0.0123 B

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:	MCP UCL	H78B-15	H78B-16	H78B-17R	OPCA-MW-1R
Parameter Date Collected:	for GroundWater	10/10/07	10/10/07	10/11/07	10/05/07
Volatile Organics					
1,1,1-Trichloroethane	100	ND(0.0010)	0.0014	ND(0.010)	ND(0.0010)
1,1-Dichloroethane	100	0.00010 J	0.00046 J	ND(0.010)	ND(0.0010)
1,2-Dichloroethane	100	ND(0.0010)	0.00033 J	ND(0.010)	ND(0.0010)
Acetone	100	0.0031 J	ND(0.0050) J	ND(0.050) J	ND(0.0050) J
Bromoform	100	ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0010)
Chlorobenzene	10	ND(0.0010)	0.00051 J	ND(0.010)	ND(0.0010)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	0.0044 J	ND(0.0050)
Tetrachloroethene	100	ND(0.0010)	0.00024 J	0.0025 J	0.015
Toluene	80	ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0010)
trans-1,2-Dichloroethene	100	ND(0.0010)	0.00030 J	0.0017 J	ND(0.0010)
Trichloroethene	50	0.00023 J	0.021	0.10	ND(0.0010)
Trichlorofluoromethane	Not Listed	ND(0.0010)	0.00041 J	ND(0.010)	ND(0.0010)
Vinyl Chloride	100	ND(0.0010)	0.00067 J	ND(0.010)	ND(0.0010)
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	NA	ND(0.00010)
Aroclor-1260	Not Listed	ND(0.000065)	NA	NA	ND(0.00010)
Total PCBs	0.005	ND(0.000065)	NA	NA	ND(0.00010)
Semivolatile Organics					
bis(2-Ethylhexyl)phthalate	100	ND(0.010)	NA	NA	ND(0.010)
Dimethylphthalate	100	ND(0.010)	NA	NA	ND(0.010)
Naphthalene	100	ND(0.010)	NA	NA	ND(0.010)
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.000000017)	NA	NA	0.0000000025 J
TCDFs (total)	Not Listed	ND(0.000000017)	NA	NA	0.0000035 J
1,2,3,7,8-PeCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
PeCDFs (total)	Not Listed	ND(0.000000052)	NA	NA	0.0000031 J
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
HxCDFs (total)	Not Listed	ND(0.000000052)	NA	NA	0.0000014
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
HpCDFs (total)	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
OCDF	Not Listed	ND(0.00000011)	NA	NA	ND(0.00000010)
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000020)	NA	NA	ND(0.000000013)
TCDDs (total)	Not Listed	ND(0.0000000020)	NA	NA	ND(0.000000013)
1,2,3,7,8-PeCDD	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
PeCDDs (total)	Not Listed	ND(0.0000000052)	NA	NA	ND(0.0000000050)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.000000052)	NA	NA	ND(0.0000000050)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000052)	NA	NA	ND(0.0000000050)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
HxCDDs (total)	Not Listed	ND(0.000000052)	NA	NA	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000052)	NA	NA	ND(0.0000000050)
HpCDDs (total)	Not Listed	ND(0.000000052)	NA	NA	ND(0.000000050)
OCDD	Not Listed	ND(0.00000011)	NA	NA	ND(0.00000010)
Total TEQs (WHO TEFs)	0.000001	0.000000070	NA	NA	0.0000000066
Inorganics-Unfiltered (sulfide)					
None Detected			NA	NA	
Inorganics-Filtered	•	•	•	•	•
Arsenic	9	0.00346 B	NA	NA	ND(0.0100)
Barium	100	0.0546 B	NA	NA	ND(0.107)
Beryllium	0.5	ND(0.0100)	NA	NA	ND(0.0100) J
Nickel	2	ND(0.0100)	NA	NA	ND(0.0100) J
	30	ND(0.0100) J	NA	NA	ND(0.0100)
Thallium	30	110(0.0100) 3			
Thallium Tin	Not Listed	ND(0.0100) 3	NA NA	NA NA	ND(0.100) J

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID:	MCP UCL	OPCA-MW-2	OPCA-MW-3
Parameter Date Collected:	for GroundWater	10/08/07	10/09/07
Volatile Organics			
1,1,1-Trichloroethane	100	0.00013 J [0.00013 J]	ND(0.0010)
1,1-Dichloroethane	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Acetone	100	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Bromoform	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene	10	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Methylene Chloride	100	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroethene	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene	80	ND(0.0010) [ND(0.0010)]	ND(0.0010)
trans-1,2-Dichloroethene	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichloroethene	50	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Trichlorofluoromethane	Not Listed	0.00040 J [0.00041 J]	ND(0.0010)
Vinyl Chloride	100	ND(0.0010) [ND(0.0010)]	ND(0.0010)
PCBs-Filtered			
Aroclor-1254	Not Listed	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Total PCBs	0.005	ND(0.00010) [ND(0.00010)]	ND(0.000065)
Semivolatile Organics	400	ND(0.040) (1/10/0.040)	ND(C C (C)
bis(2-Ethylhexyl)phthalate	100	ND(0.010) [ND(0.010)]	ND(0.010)
Dimethylphthalate	100	ND(0.010) [ND(0.010)]	ND(0.010)
Naphthalene	100	ND(0.010) [ND(0.010)]	ND(0.010)
Furans		NB (2-2-2-2-1) NVB (2-2-2-2-1-1) NV	
2,3,7,8-TCDF	Not Listed	ND(0.0000000014) [ND(0.0000000015) X]	ND(0.0000000015)
TCDFs (total)	Not Listed	0.000000036 J [0.000000050 J]	ND(0.0000000015)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
2,3,4,7,8-PeCDF	Not Listed Not Listed	ND(0.0000000050) [ND(0.0000000051)] 0.00000016 J [0.000000049 J]	ND(0.000000050) ND(0.000000050)
PeCDFs (total) 1,2,3,4,7,8-HxCDF	Not Listed Not Listed	ND(0.000000050) [0.000000055 J]	ND(0.0000000000)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.00000000000) [ND(0.00000000051)]	ND(0.0000000050)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000050) [ND(0.000000051)]	ND(0.0000000050)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000000)
HxCDFs (total)	Not Listed	ND(0.0000000050) [0.000000017 J]	ND(0.0000000000)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000000)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
HpCDFs (total)	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
OCDF	Not Listed	ND(0.000000010) [ND(0.000000010)]	ND(0.00000010)
Dioxins		, , , , , , , , , , , , , , , , , , , ,	,
2,3,7,8-TCDD	Not Listed	ND(0.000000014) [ND(0.000000018) X]	ND(0.000000017)
TCDDs (total)	Not Listed	ND(0.000000014) [ND(0.0000000012)]	ND(0.000000017)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
PeCDDs (total)	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.000000050)
HxCDDs (total)	Not Listed	ND(0.000000050) [ND(0.000000051)]	ND(0.0000000050)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.000000050) [ND(0.000000051)]	ND(0.0000000050)
HpCDDs (total)	Not Listed	ND(0.0000000050) [ND(0.0000000051)]	ND(0.0000000050)
OCDD	Not Listed	ND(0.000000010) [0.000000015 J]	ND(0.000000010)
Total TEQs (WHO TEFs)	0.000001	0.0000000065 [0.0000000071]	0.000000067
Inorganics-Unfiltered (sulfide)			T
None Detected			
Inorganics-Filtered		ND(0.0400) 151D(0.0400) 17	ND(0.0400)
Arsenic	9	ND(0.0100) J [ND(0.0100) J]	ND(0.0100)
Barium	100	0.0144 B [0.0128 B]	0.0620 B
Beryllium Nickel	0.5	ND(0.0100) J [ND(0.0100) J]	0.000330 B
	2 30	0.00638 B [ND(0.0100)]	ND(0.0100)
Thallium		ND(0.0100) [ND(0.0100)] ND(0.0100) [ND(0.0100)]	ND(0.0100) J
Tin Zinc	Not Listed 50	ND(0.0100) [ND(0.0100)] ND(0.0200) [ND(0.0200)]	ND(0.0100) ND(0.0200)
ZIIIC	50	ואט(ט.טבטט) [ואט(ט.טבטט)]	ND(0.0200)

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Sample ID	: MCP UCL	OPCA-MW-4	OPCA-MW-5R	OPCA-MW-6
Parameter Date Collected		10/09/07	10/09/07	10/15/07
Volatile Organics	<u> </u>			
1,1,1-Trichloroethane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone	100	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform	100	ND(0.0010)	ND(0.0010)	ND(0.0010) J
Chlorobenzene	10	ND(0.0010)	0.00024 J	ND(0.0010)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	80	0.00032 J	0.00011 J	ND(0.0010)
trans-1,2-Dichloroethene Trichloroethene	100 50	ND(0.0010) 0.0017	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
Trichlorofluoromethane	Not Listed	ND(0.0017)	ND(0.0010) ND(0.0010)	ND(0.0010)
Vinyl Chloride	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered	100	145(0.0010)	142(0.0010)	145(0.0010)
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.00010)	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	ND(0.00010)	ND(0.000065)
Semivolatile Organics		(= 30000)	(= ====)	(2.2.2.2.)
bis(2-Ethylhexyl)phthalate	100	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthalate	100	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	100	ND(0.010)	ND(0.010)	ND(0.010)
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000020)	0.0000000076 J	ND(0.0000000021)
TCDFs (total)	Not Listed	ND(0.0000000020)	0.0000069 J	ND(0.000000021)
1,2,3,7,8-PeCDF	Not Listed	ND(0.000000052)	ND(0.000000052) J	ND(0.000000052)
2,3,4,7,8-PeCDF	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
PeCDFs (total)	Not Listed	ND(0.000000056)	0.00000090 J	ND(0.000000052)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.000000052)	0.00000053	ND(0.000000052)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.000000052)	ND(0.000000052)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000052)	ND(0.000000052) 0.0000042 J	ND(0.0000000052)
HxCDFs (total) 1,2,3,4,6,7,8-HpCDF	Not Listed Not Listed	ND(0.000000052) ND(0.000000052)	ND(0.00000042 J	ND(0.000000052) 0.000000052 J
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000052)	ND(0.000000032)	ND(0.000000052)
HpCDFs (total)	Not Listed	ND(0.0000000052)	ND(0.000000052)	0.0000000052 J
OCDF	Not Listed	ND(0.00000000000000000000000000000000000	ND(0.00000000000000000000000000000000000	0.0000000032 U
Dioxins		(0.0000000)	(3.000000000)	
2,3,7,8-TCDD	Not Listed	ND(0.0000000025)	ND(0.000000014)	ND(0.0000000028)
TCDDs (total)	Not Listed	ND(0.000000025)	ND(0.000000014)	ND(0.0000000028)
1,2,3,7,8-PeCDD	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
PeCDDs (total)	Not Listed	ND(0.000000052)	ND(0.000000052) J	ND(0.000000052)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
HxCDDs (total)	Not Listed	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
HpCDDs (total)	Not Listed	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
OCDD Total TEQs (WHO TEFs)	Not Listed	ND(0.00000010) 0.000000073	0.000000018 J	0.00000016 J 0.000000074
Inorganics-Unfiltered (sulfide)	0.000001	0.000000073	0.00000012	0.000000074
None Detected				
Inorganics-Filtered			<u></u>	
Arsenic	9	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	100	0.0270 B	0.0536 B	ND(0.0100) ND(0.500)
Beryllium	0.5	0.0270 B 0.00373 B	0.000330 B	0.00366 J
Nickel	2	ND(0.0100)	ND(0.0100)	ND(0.0500)
Thallium	30	ND(0.0100) J	ND(0.0100) ND(0.0100) J	ND(0.0100) J
Tin	Not Listed	ND(0.0100)	ND(0.0100)	0.00939 J
Zinc	50	0.0100 B	0.00813 B	0.0196 B

Table 8
Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

	Sample ID:	MCP UCL	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter	Date Collected:	for GroundWater	10/11-10/18/2007	10/11/07	10/08/07
Volatile Organ	nics				
1,1,1-Trichloro		100	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroeth		100	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroeth	hane	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone		100	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Bromoform		100	ND(0.0010) J	ND(0.0010) J	ND(0.0010)
Chlorobenzene	е	10	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chl	oride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroeth	ene	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene		80	0.00029 J	ND(0.0010)	0.00010 J
trans-1,2-Dichl	loroethene	100	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichloroethen	е	50	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluoro	methane	Not Listed	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride		100	ND(0.0010)	ND(0.0010)	ND(0.0010)
PCBs-Filtered					
Aroclor-1254		Not Listed	0.0012	ND(0.00010)	ND(0.00010)
Aroclor-1260		Not Listed	0.00091	ND(0.00010)	ND(0.00010)
Total PCBs		0.005	0.00211	ND(0.00010)	ND(0.00010)
Semivolatile (Organics		•	. ,	. , ,
bis(2-Ethylhex		100	ND(0.010)	0.0017 J	ND(0.010)
Dimethylphtha		100	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		100	ND(0.010)	ND(0.010)	ND(0.010)
Furans			(0.0.0)	(0.0.0)	(0.0.0)
2,3,7,8-TCDF		Not Listed	ND(0.000000035)	ND(0.0000000026)	ND(0.000000017)
TCDFs (total)		Not Listed	ND(0.0000000035)	ND(0.0000000026)	0.0000000011)
1,2,3,7,8-PeC[DF	Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.000000053)
2,3,4,7,8-PeC[Not Listed	ND(0.0000000054)	ND(0.0000000000)	ND(0.0000000003)
PeCDFs (total)		Not Listed	ND(0.0000000054)	ND(0.0000000000)	0.000000000000000000000000000000000000
1,2,3,4,7,8-Hx		Not Listed	ND(0.0000000054)	ND(0.0000000000)	0.000000003 J
1,2,3,6,7,8-Hx		Not Listed	ND(0.0000000054)	ND(0.0000000000)	ND(0.0000000053)
1,2,3,7,8,9-Hx		Not Listed	ND(0.0000000054)	ND(0.00000000000)	ND(0.000000003)
2,3,4,6,7,8-Hx		Not Listed	ND(0.0000000054)	ND(0.0000000000)	ND(0.000000003)
HxCDFs (total)		Not Listed	ND(0.0000000054)	ND(0.0000000000)	0.000000000000000000000000000000000000
1,2,3,4,6,7,8-H		Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000103)
1,2,3,4,7,8,9-H		Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000033)
HpCDFs (total)		Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000033)
OCDF)	Not Listed	ND(0.0000000011)	ND(0.0000000000)	ND(0.0000000011)
Dioxins		Not Listed	112(0:000000011)	142(0:000000010)	142(0.000000011)
2,3,7,8-TCDD		Not Listed	ND(0.0000000045)	ND(0.000000032)	ND(0.000000014)
TCDDs (total)		Not Listed	ND(0.000000045)	ND(0.000000032)	ND(0.0000000014)
1,2,3,7,8-PeC[חח	Not Listed	ND(0.000000043)	ND(0.0000000050)	ND(0.0000000014)
PeCDDs (total		Not Listed	ND(0.000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,4,7,8-Hx		Not Listed	ND(0.0000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,4,7,8-HX		Not Listed	ND(0.000000054)	ND(0.0000000050)	ND(0.0000000053)
1,2,3,6,7,8-Hxt			ND(0.000000054)	ND(0.0000000050)	ND(0.0000000053)
HxCDDs (total		Not Listed Not Listed	ND(0.000000054)	ND(0.0000000050)	ND(0.000000003)
1,2,3,4,6,7,8-H		Not Listed Not Listed	ND(0.000000054)	ND(0.0000000050)	ND(0.0000000053)
HpCDDs (total		Not Listed Not Listed	ND(0.000000054)	ND(0.000000059)	ND(0.0000000053)
OCDD (total)	Not Listed Not Listed	0.0000000054)	0.00000000059)	ND(0.000000003)
Total TEQs (W	/HO TEEs)	0.00001	0.000000015 J	0.000000020 J	0.0000000011)
	nfiltered (sulfide)	0.000001	0.000000000	0.000000075	0.000000014
			-	T	
None Detected					
Inorganics-Fil	iterea		ND(0.0400)	ND(0.0400)	ND(0.0400) 1
Arsenic		9	ND(0.0100)	ND(0.0100)	ND(0.0100) J
Barium		100	0.0869 B	ND(0.100)	0.0676 B
Beryllium		0.5	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Nickel		2	ND(0.0100)	ND(0.0100)	0.00510 B
Thallium		30	ND(0.0100) J	ND(0.0100) J	ND(0.0100)
Tin		Not Listed	ND(0.100) J	ND(0.100) J	ND(0.0100)
Zinc		50	0.0208	0.00726 B	0.290

Table 8

Comparison of Groundwater Analytical Results to MCP UCLs for Groundwater

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Notes:

- Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- 5. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
- 6. Field duplicate sample results are presented in brackets.
- 7. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.

Table 9
Spring 2008 Interim Groundwater Quality Monitoring Activities

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts

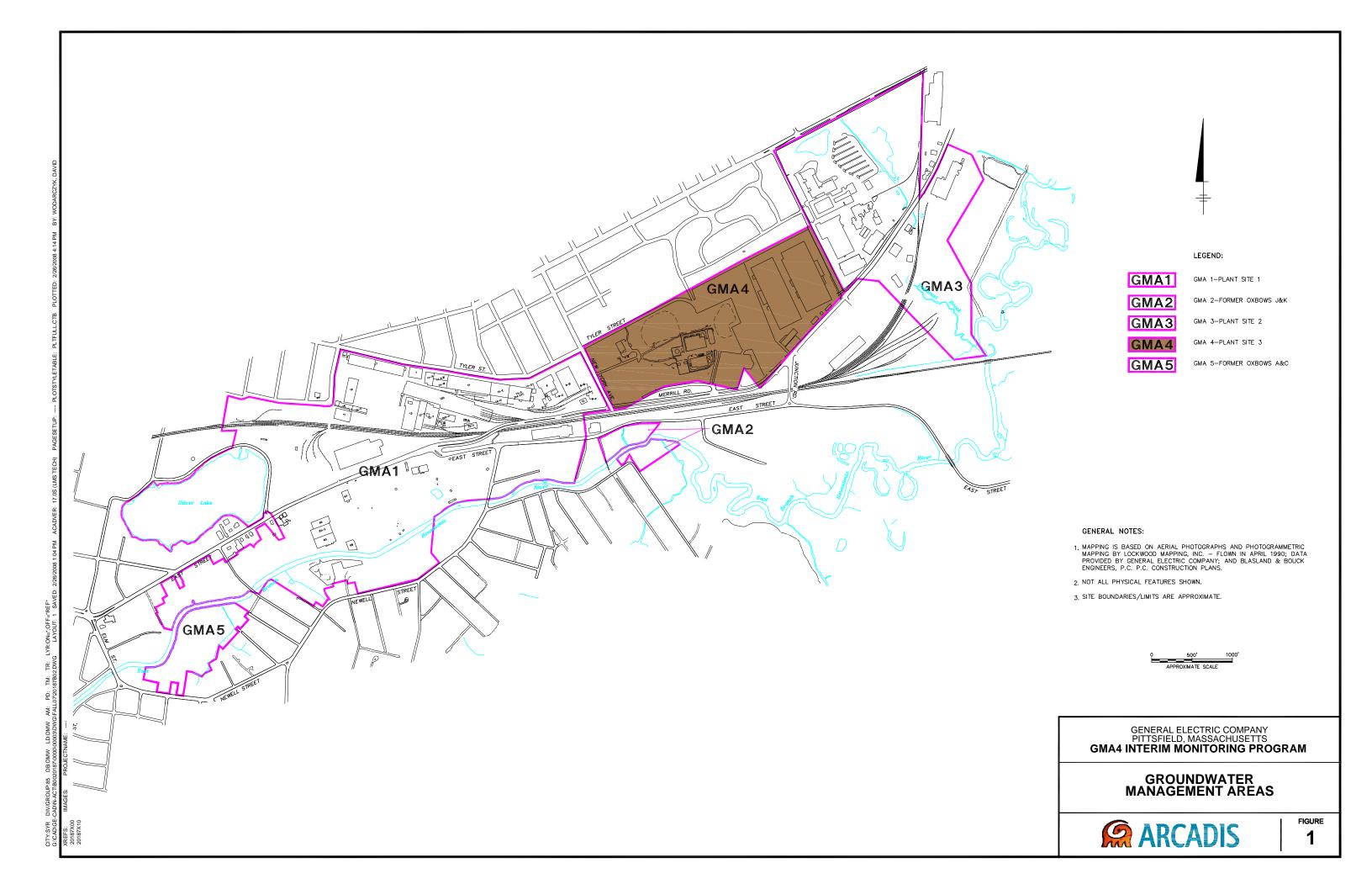
Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Basis for Inclusion/Comments
78-1	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
78-6	GW-3 Perimeter/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
GMA4-6	GW-3 Perimeter (Upgradient)/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
H78B-15	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
H78B-16	Supplemental Well for TCE Evaluation	Annual - Spring 2008	VOC	Sampling of these two wells is to be conducted on an annual basis, alternating between the spring and fall seasons each year. This schedule began with the
H78B-17R	GW-3 Perimeter (Downgradient)	Annual - Spring 2008	VOC	spring 2004 event and the next scheduled sampling will be spring 2008.
OPCA-MW- 1RR	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampling will resume after this replacement well is installed.
OPCA-MW-2R	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Sampling will resume after this replacement well is installed.
OPCA-MW-3	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-4	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-5R	GW-2 Sentinel/GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-6	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-7	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2,3)	Well is included in OPCA groundwater quality monitoring program network.
OPCA-MW-8	GW-3 General/Source Area Sentinel/OPCA Groundwater Monitoring Program	Semi-Annual	PCB/App. IX (1,2)	Well is included in OPCA groundwater quality monitoring program network.

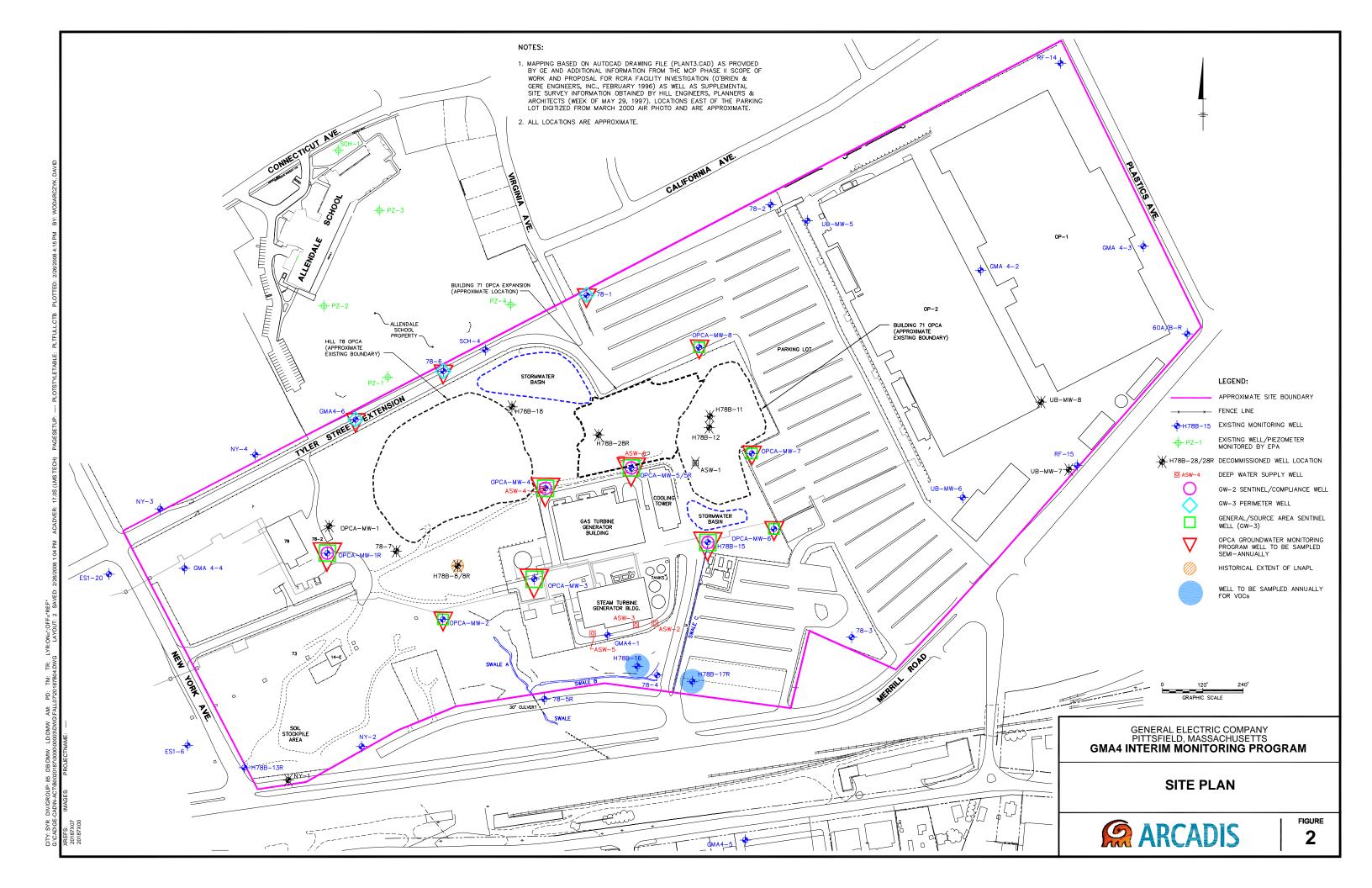
NOTES:

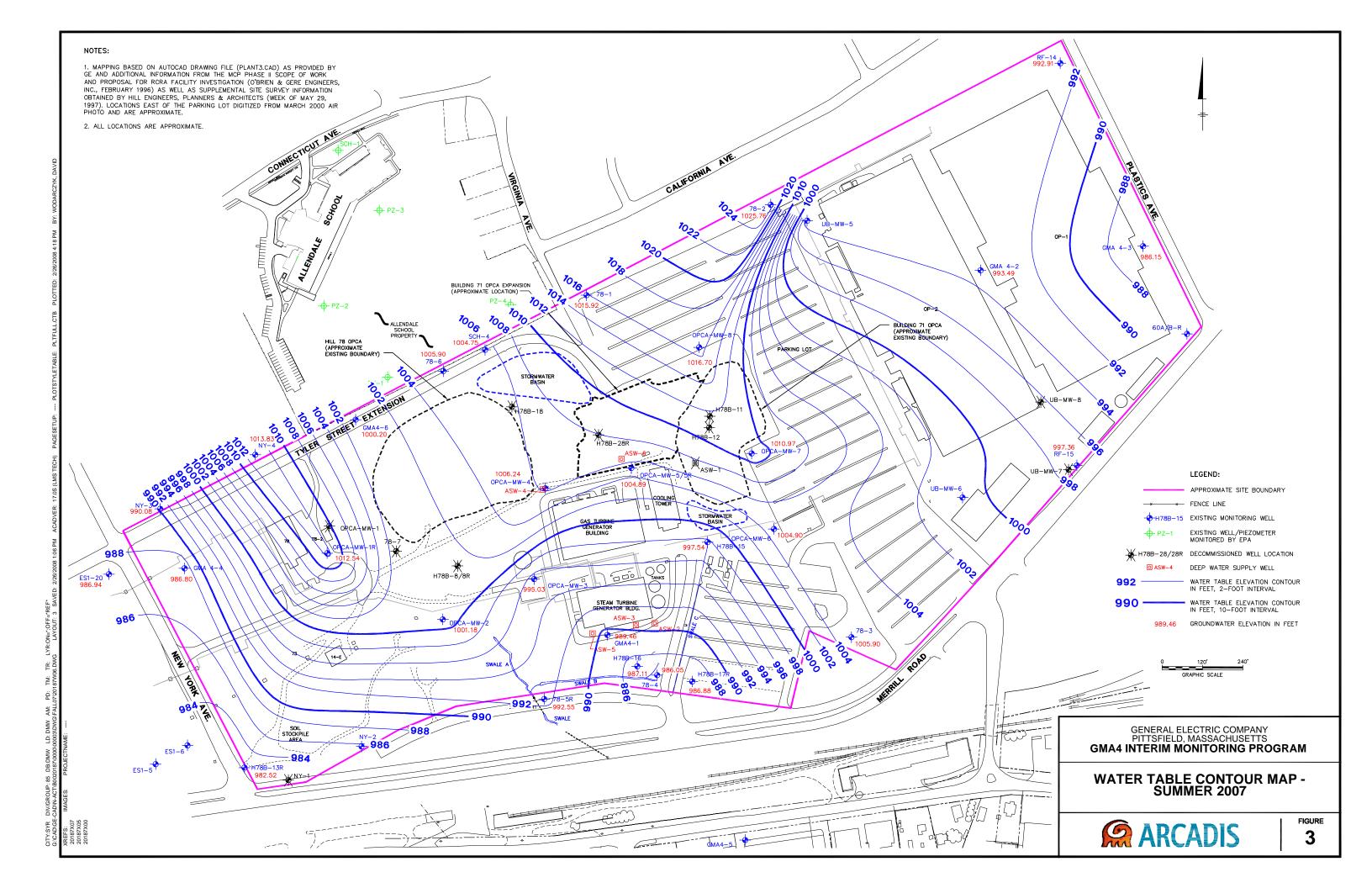
- 1. Appendix IX+3 analyses consists of those non-PCB constituents listed in Appendix IX of 40 CFR Part 264 (excluding pesticides and herbicides) plus three constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine.
- 2. Per the interim monitoring program protocols, analyses for PCBs, metals, and cyanide performed on filtered samples only.

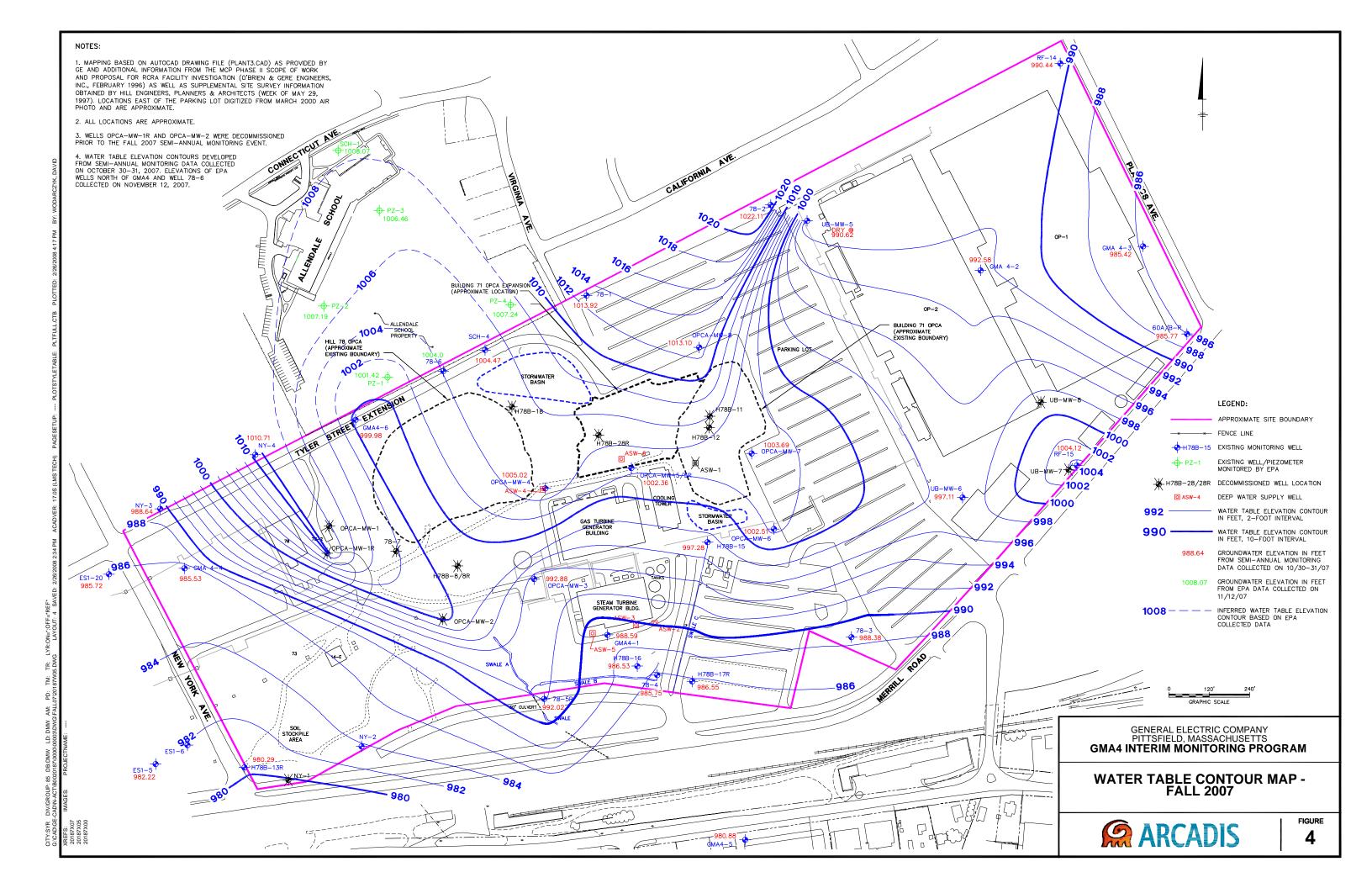
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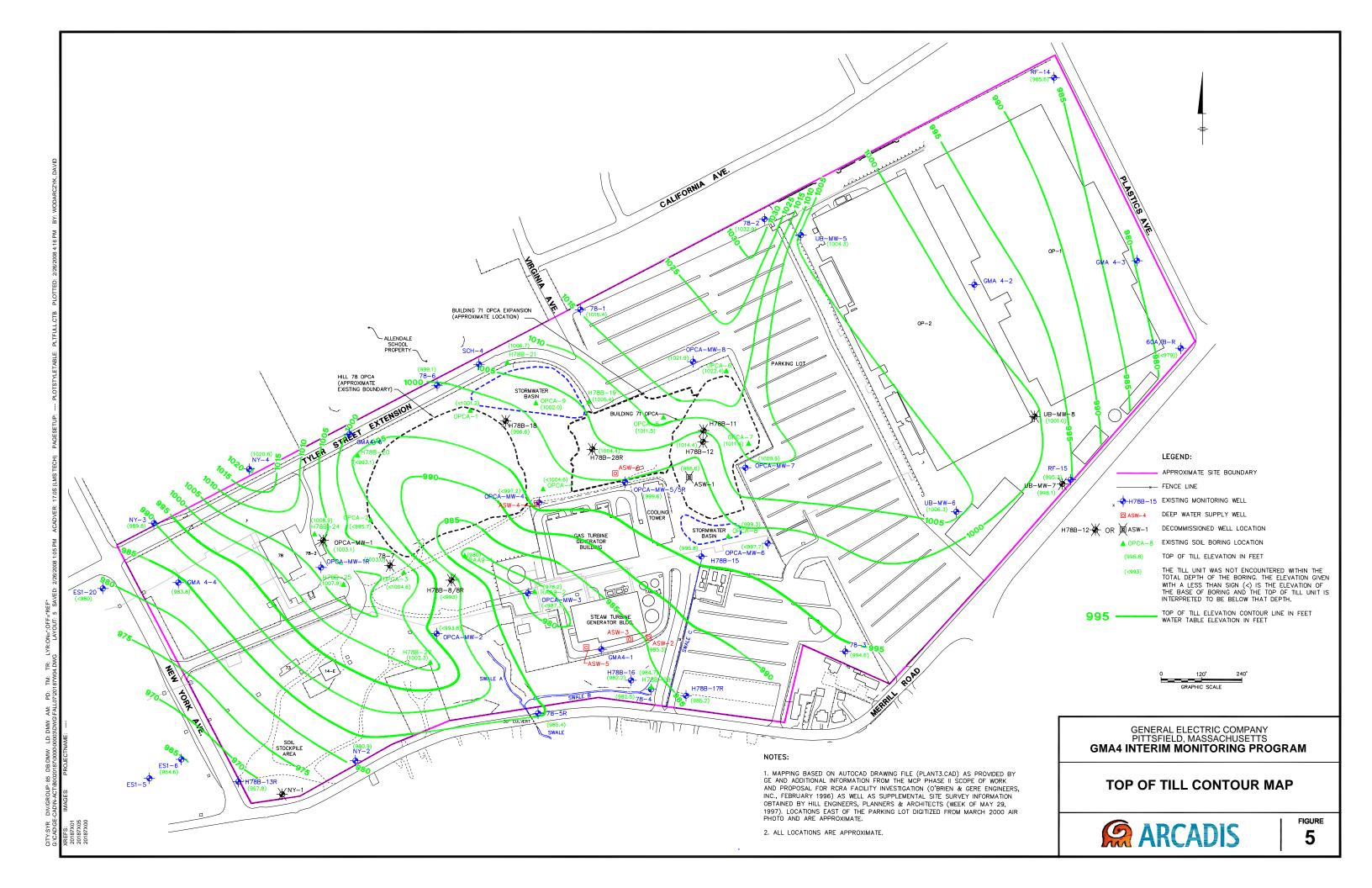
Figures











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Appendices

ARCADIS

Appendix A

Groundwater Analytical Results – Fall 2007

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	78-1 10/09/07	78-6 11/13/07	GMA4-6 10/08/07	H78B-15 10/10/07
Volatile Organic	s		•		
1,1,1,2-Tetrachlo		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1.1.1-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachlo	roethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroeth		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethar		ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00010 J
1,1-Dichloroether		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-ch	•	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
1.2-Dibromoetha		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethar	ne	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane		ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
2-Butanone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Chloro-1,3-buta	adiene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Chloroethylviny		R	ND(0.013) J	ND(0.013) J	ND(0.013) J
2-Hexanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0000)
4-Methyl-2-penta		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Acetone	Hone	0.0023 J	0.0014 J	ND(0.0050) J	0.0031 J
Acetonitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Acrolein		ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Acrylonitrile		ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Benzene		ND(0.023) 3 ND(0.0010)	ND(0.023) 3 ND(0.0010)	ND(0.023) 3 ND(0.0010)	ND(0.023) 3 ND(0.0010)
Bromodichlorome	othana	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)
Bromoform	etriarie	0.00048 J	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) ND(0.0010)
Carbon Disulfide		, ,	` ,	ND(0.0010)	` ,
	uida	ND(0.0010)	ND(0.0010)	,	ND(0.0010)
Carbon Tetrachic	oride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane Chloroform		ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
		, ,	` ,	ND(0.0010)	ND(0.0010)
Chloromethane	******	ND(0.0010)	ND(0.0010)	` ,	(,
cis-1,3-Dichlorop		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluorom		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylat	ie .	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene		ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)	ND(0.0010)
Iodomethane		ND(0.0010)	` ,	ND(0.0010)	ND(0.0010)
Isobutanol		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile	oto	ND(0.010)	ND(0.010) J	ND(0.010)	ND(0.010)
Methyl Methacryl		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chlori	ue	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Styrene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethen	e	ND(0.0010)	ND(0.0010) J	ND(0.0010)	ND(0.0010)
Toluene	a a tha a a	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,2-Dichlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichlor		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00023 J
Trichlorofluorome	etnane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Acetate		ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs		0.0028 J	0.0014 J	ND(0.10)	0.0034 J

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	78-1 10/09/07	78-6 11/13/07	GMA4-6 10/08/07	H78B-15 10/10/07
PCBs-Filtered					
Aroclor-1016		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1221		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1232		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1242		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1248		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1254		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1260		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Total PCBs		ND(0.00010)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Semivolatile Or	ganics	,	, ,	, ,	,
1,2,4,5-Tetrachlo	•	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobe		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Dichlorobenz		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Diphenylhydr		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,3,5-Trinitroben		ND(0.050)	ND(0.025)	ND(0.050)	ND(0.050)
1,3-Dichlorobenz		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,3-Dinitrobenze		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,4-Dichlorobenz		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1,4-Naphthoquin		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
1-Naphthylamine		ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)
2,3,4,6-Tetrachlo		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,4,5-Trichloroph		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,4,6-Trichloroph		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,4-Dichlorophen		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,4-Dimethylphei		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,4-Dinitropheno		ND(0.050)	ND(0.0030)	ND(0.050)	ND(0.050)
2,4-Dinitropheno		ND(0.030)	ND(0.025)	ND(0.030)	ND(0.010)
2,6-Dichloropher		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluen		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2-Acetylaminoflu		ND(0.020)	ND(0.0000)	ND(0.020)	ND(0.020)
2-Chloronaphtha		ND(0.020)	ND(0.010)	ND(0.020)	ND(0.020)
2-Chlorophenol	lierie	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2-Methylnaphtha	lene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2-Methylphenol	licite	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2-Naphthylamine	<u>, </u>	ND(0.050) J	ND(0.0050)	ND(0.050) J	ND(0.050) J
2-Napritriylariine		ND(0.030) 3	ND(0.025)	ND(0.030) 3	ND(0.030) 3
2-Nitrophenol		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
2-Picoline		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
3&4-Methylphen	ol	ND(0.010) J	ND(0.0050) J	ND(0.010) J	ND(0.010) J
3,3'-Dichlorobena		ND(0.020)	ND(0.000)	ND(0.020)	ND(0.020)
3,3'-Dimethylben		ND(0.050) J	ND(0.025) J	ND(0.050) J	ND(0.050) J
3-Methylcholanth		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
3-Nitroaniline	110110	ND(0.050)	ND(0.0030)	ND(0.050)	ND(0.050)
4,6-Dinitro-2-met	thylphenol	ND(0.050)	ND(0.025)	ND(0.050)	ND(0.050)
4-Aminobiphenyl	, .	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
4-Bromophenyl-p		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
4-Chloro-3-Methy		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
4-Chloroaniline	J.P01101	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)
4-Chlorobenzilate	e	ND(0.010)	ND(0.023)	ND(0.030)	ND(0.010)
4-Chlorophenyl-p		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
4-Onlorophenyi-p	on on y location	ND(0.050)	ND(0.0050)	ND(0.050)	ND(0.050)
4-Nitrophenol		ND(0.050)	ND(0.025)	ND(0.050)	ND(0.050)
4-Nitroquinoline-	1-oxide	ND(0.050) J	ND(0.025)	ND(0.050) J	ND(0.050) J
4-Nitroquinoline-		ND(0.020) J	ND(0.023)	ND(0.030) J	ND(0.030) J
5-Nitro-o-toluidin		ND(0.020) 3 ND(0.010)	ND(0.010)	ND(0.020) 3	ND(0.010)
7,12-Dimethylbei		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
a,a'-Dimethylphe		ND(0.050) J	ND(0.0050)	ND(0.050) J	ND(0.050) J
Acenaphthene	anoutylamine	ND(0.030) 3 ND(0.010)	ND(0.023)	ND(0.030) 3 ND(0.010)	ND(0.030) 3 ND(0.010)
Acenaphthylene		ND(0.010)	ND(0.0050)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Acetophenone		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Aniline		ND(0.010)	ND(0.0050)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
AIIIIIIIE		(0.010)	(חכטטיסאו	(טוט.טוט)	(טוטטטווו)

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	78-1 10/09/07	78-6 11/13/07	GMA4-6 10/08/07	H78B-15 10/10/07
Semivolatile Org	anics (continued)				
Anthracene	,	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Aramite		ND(0.010) J	ND(0.0050) J	ND(0.010) J	ND(0.010) J
Benzidine		ND(0.020) J	ND(0.010) J	ND(0.020) J	ND(0.020) J
Benzo(a)anthrace	ne	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Benzo(a)pyrene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Benzo(b)fluoranth	ene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Benzo(g,h,i)peryle	ene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Benzo(k)fluoranth	ene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Benzyl Alcohol		ND(0.020)	ND(0.010)	ND(0.020)	ND(0.020)
bis(2-Chloroethox		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
bis(2-Chloroisopro		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)p		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Butylbenzylphthal	ate	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Chrysene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Diallate		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthi	racene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Dibenzofuran		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Diethylphthalate		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Dimethylphthalate		ND(0.010)	0.00060 J	ND(0.010)	ND(0.010)
Di-n-Butylphthalat		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Di-n-Octylphthalat	te	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Diphenylamine		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Ethyl Methanesulf	onate	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Fluoranthene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Fluorene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Hexachlorobenze		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Hexachlorobutadi		ND(0.010)	ND(0.0050) J	ND(0.010)	ND(0.010)
Hexachlorocyclop		ND(0.020) J	ND(0.010)	ND(0.020) J	ND(0.020) J
Hexachloroethane		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Hexachlorophene		ND(0.010) J	ND(0.0050) J	ND(0.010) J	ND(0.010) J
Hexachloroproper		ND(0.020)	ND(0.010)	ND(0.020)	ND(0.020)
Indeno(1,2,3-cd)p	yrene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Isodrin		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Isophorone		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Isosafrole Methapyrilene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Methyl Methanesu	ulfamata	ND(0.010)	ND(0.0050) ND(0.0050)	ND(0.010)	ND(0.010) ND(0.010)
Naphthalene	liionate	ND(0.010) ND(0.010)	0.0016 J	ND(0.010) ND(0.010)	ND(0.010)
Nitrobenzene		ND(0.010)	ND(0.0050)	ND(0.010)	
N-Nitrosodiethylar	mino	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010) ND(0.010)
N-Nitrosodimethyl		ND(0.010)	ND(0.0050)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
N-Nitroso-di-n-but		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-pro		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitrosodiphenyl		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitrosomethylet		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitrosomorphol		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitrosopiperidin		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidii		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
o,o,o-Triethylphos		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
o-Toluidine	-p51011110410	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
p-Dimethylaminoa	zobenzene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Pentachlorobenze		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Pentachloroethan		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Pentachloronitrob		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Pentachloropheno		ND(0.050)	ND(0.025)	ND(0.050)	ND(0.050)
Phenacetin		ND(0.030)	ND(0.0050)	ND(0.030)	ND(0.030)
		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Phenanthrene					
Phenanthrene Phenol		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	78-1 10/09/07	78-6 11/13/07	GMA4-6 10/08/07	H78B-15 10/10/07
Semivolatile Or	ganics (continued)				
Pyrene		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Pyridine		ND(0.010) J	ND(0.0050)	ND(0.010)	ND(0.010)
Safrole		ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.010)
Thionazin		ND(0.020)	ND(0.010)	ND(0.020)	ND(0.020)
Furans		,	. , ,	, ,	, ,
2,3,7,8-TCDF		ND(0.000000018)	ND(0.0000000042)	ND(0.000000026)	ND(0.000000017)
TCDFs (total)		0.0000012 J	0.0000000076 J	0.000000023 J	ND(0.000000017)
1,2,3,7,8-PeCDF	:	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
2,3,4,7,8-PeCDF		ND(0.000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.0000000052)
PeCDFs (total)		0.00000034 J	ND(0.000000052)	0.0000000076 J	ND(0.000000052)
1,2,3,4,7,8-HxC[)F	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
1,2,3,6,7,8-HxCI		ND(0.0000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
1,2,3,7,8,9-HxCI		ND(0.0000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
2,3,4,6,7,8-HxCI		ND(0.000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
HxCDFs (total)		0.0000000000J	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
1,2,3,4,6,7,8-Hpt	CDF	ND(0.00000000000000000000000000000000000	ND(0.000000052)	ND(0.000000050)	ND(0.0000000052)
1,2,3,4,7,8,9-Hp		ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000050)	ND(0.0000000052)
HpCDFs (total)	ODI	ND(0.00000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
OCDF		ND(0.000000010)	ND(0.000000011)	ND(0.000000010)	ND(0.000000011)
Dioxins	l	(3.2 (3.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(0.0000000)	(0.0000000)	(0.00000000000000000000000000000000
2,3,7,8-TCDD		ND(0.0000000012)	ND(0.000000037)	ND(0.000000034)	ND(0.0000000020)
TCDDs (total)		ND(0.000000012)	ND(0.000000037)	ND(0.000000034)	ND(0.0000000020)
1,2,3,7,8-PeCDE)	ND(0.000000050)	ND(0.000000052)	ND(0.000000050)	ND(0.000000052)
PeCDDs (total)	,	ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
1,2,3,4,7,8-HxC[מכ	ND(0.00000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
1,2,3,6,7,8-HxCI		ND(0.0000000000)	ND(0.0000000052)	ND(0.00000000000)	ND(0.0000000052)
1,2,3,7,8,9-HxCI		ND(0.00000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
HxCDDs (total)	55	ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
1,2,3,4,6,7,8-Hpt	CDD	ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
HpCDDs (total)	000	ND(0.0000000000)	ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000052)
OCDD		ND(0.000000000)	ND(0.000000011)	ND(0.000000010)	ND(0.000000011)
Total TEQs (WH	O TEFs)	0.0000000064	0.000000080	0.000000075	0.0000000000
Inorganics-Unfi		0.000000000	0.00000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000
Sulfide	nerea (samae)	R	ND(1.00) J	ND(1.00) J	ND(1.00) J
Inorganics-Filte	ered	IX.	145(1.00) 3	145(1.00) 3	142(1.00) 3
Antimony		ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic		ND(0.0100) J	0.00588 J	ND(0.0100) J	0.00346 B
Barium		0.0172 B	0.0667 B	0.00701 B	0.0546 B
Beryllium		ND(0.0100) J	0.0007 B	ND(0.0100) J	ND(0.0100)
Cadmium		ND(0.00500) J	ND(0.00500)	ND(0.00500) J	ND(0.00500) J
Chromium		ND(0.00300) 3	ND(0.00300)	ND(0.00500) 5	ND(0.00500) J
Cobalt		ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100) 3
Copper		ND(0.0100)	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cyanide-MADEF	P (PAC)	ND(0.0100)	ND(0.0100) 3 ND(0.00600)	ND(0.0100)	ND(0.0100)
Lead	·· /···/	ND(0.0000)	ND(0.0100)	ND(0.00000)	ND(0.0000)
Mercury		ND(0.000285)	ND(0.00285)	ND(0.00285)	ND(0.00285)
Nickel		ND(0.000203)	ND(0.000203)	0.00564 B	ND(0.0100)
Selenium		ND(0.0200) J	ND(0.0200) J	ND(0.0200) J	ND(0.0100) ND(0.0200)
Silver		ND(0.0200) J	ND(0.0200) 3	ND(0.0200) J	ND(0.0200)
Thallium		ND(0.0100) 3	ND(0.0100) ND(0.0100) J	0.00652 B	ND(0.0100) ND(0.0100) J
Tin		ND(0.0100)	ND(0.0100) J	ND(0.0100)	ND(0.0100) 3
Vanadium		ND(0.0100) ND(0.0500)	ND(0.0100) 3 ND(0.0500)	ND(0.0100)	ND(0.0100) ND(0.0500)
Zinc		0.00586 B	ND(0.0300)	0.0123 B	0.194
LIIIU		U.UUJOU D	140(0.0200)	0.0123 B	0.134

Table A-1 Fall 2007 Groundwater Analytical Results

Comple ID:	1170D 4C	1170D 47D	ODCA MW 4D	ODCA MIM 2
Sample ID: Parameter Date Collected:	H78B-16 10/10/07	H78B-17R 10/11/07	OPCA-MW-1R 10/05/07	OPCA-MW-2 10/08/07
	10/10/07	10/11/07	10/05/07	10/06/07
Volatile Organics 1,1,1,2-Tetrachloroethane	ND(0.0040)	ND(0.040)	ND(0.0040)	ND(0.0040) [ND(0.0040)]
	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1,1-Trichloroethane	0.0014	ND(0.010)	ND(0.0010)	0.00013 J [0.00013 J]
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	ND(0.0010) ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
, ,	(/	ND(0.010) ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,1-Dichloroethane 1,1-Dichloroethene	0.00046 J ND(0.0010)	ND(0.010) ND(0.010)	ND(0.0010) ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]
1,2,3-Trichloropropane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dibromo-3-chloropropane	ND(0.0010) ND(0.0050) J	ND(0.050) J	ND(0.0010)	ND(0.0010) [ND(0.0010)] ND(0.0050) J [ND(0.0050) J]
1,2-Dibromoethane	ND(0.0030) 3	ND(0.030) 3	ND(0.0030) 3	ND(0.0030) 3 [ND(0.0030) 3]
1,2-Distribution 1,2-Di	0.00033 J	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,2-Dichloropropane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
1,4-Dioxane	ND(0.10) J	ND(1.0) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]
2-Butanone	ND(0.0050) J	ND(0.050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]
2-Chloro-1,3-butadiene	ND(0.0030) 3	ND(0.030) 3	ND(0.0030) 3	ND(0.0030) 3 [ND(0.0030) 3]
2-Chloroethylvinylether	ND(0.013) J	ND(0.13) J	ND(0.013) J	ND(0.013) J [ND(0.013) J]
2-Hexanone	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
3-Chloropropene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
4-Methyl-2-pentanone	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Acetone	ND(0.0050) J	ND(0.050) J	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]
Acetonitrile	ND(0.020) J	ND(0.20) J	ND(0.020) J	ND(0.020) J [ND(0.020) J]
Acrolein	ND(0.025) J	ND(0.25) J	ND(0.025) J	ND(0.025) J [ND(0.025) J]
Acrylonitrile	ND(0.025) J	ND(0.25) J	ND(0.025) J	ND(0.025) J [ND(0.025) J]
Benzene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromodichloromethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromoform	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Bromomethane	ND(0.0010)	ND(0.010) J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Disulfide	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Carbon Tetrachloride	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chlorobenzene	0.00051 J	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloroform	ND(0.0010)	ND(0.0045)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Chloromethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
cis-1,3-Dichloropropene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromochloromethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dibromomethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Dichlorodifluoromethane	ND(0.0010)	ND(0.010) J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethyl Methacrylate	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Ethylbenzene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Iodomethane	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Isobutanol	ND(0.050) J	ND(0.50) J	ND(0.050) J	ND(0.050) J [ND(0.050) J]
Methacrylonitrile	ND(0.010)	ND(0.10)	ND(0.010)	ND(0.010) [ND(0.010)]
Methyl Methacrylate	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Methylene Chloride	ND(0.0050)	0.0044 J	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Propionitrile	ND(0.020) J	ND(0.20) J	ND(0.020) J	ND(0.020) J [ND(0.020) J]
Styrene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Tetrachloroethene	0.00024 J	0.0025 J	0.015	ND(0.0010) [ND(0.0010)]
Toluene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,2-Dichloroethene	0.00030 J	0.0017 J	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,3-Dichloropropene	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichloroethene	0.021	0.10	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Trichlorofluoromethane	0.00041 J	ND(0.010)	ND(0.0010)	0.00040 J [0.00041 J]
Vinyl Acetate	ND(0.0025)	ND(0.025)	ND(0.0025)	ND(0.0025) [ND(0.0025)]
Vinyl Chloride	0.00067 J	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Xylenes (total)	ND(0.0010)	ND(0.010)	ND(0.0010)	ND(0.0010) [ND(0.0010)]
Total VOCs	0.025 J	0.11 J	0.015	0.00053 J [0.00054 J]

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	H78B-16 10/10/07	H78B-17R 10/11/07	OPCA-MW-1R 10/05/07	OPCA-MW-2 10/08/07
PCBs-Filtered	•				
Aroclor-1016		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1221		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1232		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1242		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1248		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1254		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Aroclor-1260		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Total PCBs		NA	NA	ND(0.00010)	ND(0.00010) [ND(0.00010)]
Semivolatile Org	anics		•	•	
1,2,4,5-Tetrachlor	robenzene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,2,4-Trichlorobe	nzene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,2-Dichlorobenze	ene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,2-Diphenylhydra		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,3,5-Trinitrobenz		NA	NA	ND(0.050)	ND(0.050) [ND(0.050)]
1,3-Dichlorobenze		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,3-Dinitrobenzer		NA NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,4-Dichlorobenze		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
1,4-Naphthoquino		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
1-Naphthylamine	-	NA NA	NA NA	ND(0.050)	ND(0.050) [ND(0.050)]
2,3,4,6-Tetrachlor	rophenol	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,4,5-Trichlorophe	_	NA NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,4,6-Trichlorophe		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,4-Dichlorophen		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,4-Dimethylphen		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,4-Dinitrophenol	101	NA NA	NA NA	ND(0.050)	ND(0.050) [ND(0.050)]
2,4-Dinitrophenor	1	NA NA	NA NA	ND(0.030)	ND(0.030) [ND(0.030)]
2,6-Dichlorophen		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2,6-Dinitrotoluene		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2-Acetylaminofluc		NA NA	NA NA	ND(0.020)	ND(0.020) [ND(0.020)]
2-Chloronaphthal		NA NA	NA NA	ND(0.010)	ND(0.020) [ND(0.020)] ND(0.010) [ND(0.010)]
2-Chlorophenol	CITE	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2-Methylnaphthal	one	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
2-Methylphenol	ene	NA NA	NA NA	ND(0.010) ND(0.010) J	ND(0.010) [ND(0.010)]
2-Naphthylamine		NA NA	NA NA	ND(0.010) 3	ND(0.050) J [ND(0.050) J]
2-Nitroaniline		NA NA	NA NA	ND(0.030)	ND(0.030) 3 [ND(0.030) 3] ND(0.010) [ND(0.010)]
2-Nitrophenol		NA NA	NA NA	R	ND(0.010) [ND(0.010)]
2-Picoline		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
3&4-Methylpheno	ı	NA NA	NA NA	ND(0.010)	ND(0.010) J [ND(0.010)]
3,3'-Dichlorobenz		NA NA	NA NA	ND(0.020)	ND(0.020) [ND(0.020)]
3.3'-Dimethylbenz		NA NA	NA NA	ND(0.050)	ND(0.050) J [ND(0.050) J]
3-Methylcholanth		NA NA	NA NA	ND(0.030)	ND(0.030) 3 [ND(0.030) 3]
3-Nitroaniline	Terre	NA NA	NA NA	ND(0.050)	ND(0.050) [ND(0.050)]
4,6-Dinitro-2-meth	ovlobenol	NA NA	NA NA	ND(0.050)	ND(0.050) [ND(0.050)]
4-Aminobiphenyl	iyipiiloiloi	NA NA	NA NA	ND(0.030)	ND(0.030) [ND(0.030)] ND(0.010) [ND(0.010)]
4-Bromophenyl-p	henvlether	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)] ND(0.010) [ND(0.010)]
4-Bromophenyi-p		NA NA	NA NA	ND(0.010) ND(0.010)	ND(0.010) [ND(0.010)] ND(0.010) [ND(0.010)]
4-Chloroaniline	ibilelloi	NA NA	NA NA	ND(0.010) ND(0.050)	ND(0.010) [ND(0.010)] ND(0.050) [ND(0.050)]
4-Chlorobenzilate	,	NA NA	NA NA	ND(0.030)	ND(0.030) [ND(0.030)] ND(0.010) [ND(0.010)]
4-Chlorophenyl-p		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
4-Chlorophenyi-p	i iony ion ion	NA NA	NA NA	R	ND(0.010) [ND(0.010)] ND(0.050) [ND(0.050)]
4-Nitrophenol		NA NA	NA NA	ND(0.050) J	ND(0.050) [ND(0.050)] ND(0.050) [ND(0.050)]
4-Nitropriendi 4-Nitroquinoline-1	-ovide	NA NA	NA NA	ND(0.050) J	ND(0.050) [ND(0.050)] ND(0.050) J [ND(0.050) J]
4-Phenylenediam		NA NA	NA NA	ND(0.050) J ND(0.020) J	ND(0.050) J [ND(0.050) J] ND(0.020) J [ND(0.020) J]
5-Nitro-o-toluidine		NA NA	NA NA	ND(0.020) 3 ND(0.010)	ND(0.020) 3 [ND(0.020) 3] ND(0.010) [ND(0.010)]
7,12-Dimethylben		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
a,a'-Dimethylpher	leuryiannine			ND(0.050) J	ND(0.050) J [ND(0.050) J]
Acenaphthene		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Acenaphthylene		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Acetophenone		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Aniline		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	H78B-16 10/10/07	H78B-17R 10/11/07	OPCA-MW-1R 10/05/07	OPCA-MW-2 10/08/07
Semivolatile Orga	anics (continued)				
Anthracene	,	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Aramite		NA	NA	ND(0.010) J	ND(0.010) J [ND(0.010) J]
Benzidine		NA	NA	ND(0.020) J	ND(0.020) J [ND(0.020) J]
Benzo(a)anthracei	ne	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Benzo(a)pyrene		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Benzo(b)fluoranthe	ene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Benzo(g,h,i)peryle	ne	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Benzo(k)fluoranthe	ene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Benzyl Alcohol		NA	NA	ND(0.020)	ND(0.020) [ND(0.020)]
bis(2-Chloroethoxy	/)methane	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
bis(2-Chloroethyl)		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
bis(2-Chloroisopro	pyl)ether	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
bis(2-Ethylhexyl)pl		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Butylbenzylphthala	ate	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Chrysene		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Diallate		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Dibenzo(a,h)anthra	acene	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Dibenzofuran		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Diethylphthalate		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Dimethylphthalate		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Di-n-Butylphthalate		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Di-n-Octylphthalate	е	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Diphenylamine		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Ethyl Methanesulfo	onate	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Fluoranthene		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Fluorene		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Hexachlorobenzer		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Hexachlorobutadie		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Hexachlorocyclope		NA	NA	ND(0.020)	ND(0.020) J [ND(0.020) J]
Hexachloroethane		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Hexachlorophene		NA NA	NA	ND(0.010) J	ND(0.010) J [ND(0.010) J]
Hexachloropropen		NA NA	NA	ND(0.020)	ND(0.020) [ND(0.020)]
Indeno(1,2,3-cd)py	/rene	NA NA	NA	ND(0.010) J	ND(0.010) [ND(0.010)]
Isodrin		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Isophorone		NA NA	NA NA	ND(0.010) ND(0.010)	ND(0.010) [ND(0.010)]
Isosafrole Methapyrilene		NA NA	NA NA	ND(0.010) ND(0.010)	ND(0.010) [ND(0.010)] ND(0.010) [ND(0.010)]
Methyl Methanesu	Ifonata	NA NA	NA NA	ND(0.010) ND(0.010)	ND(0.010) [ND(0.010)] ND(0.010) [ND(0.010)]
Naphthalene	lionate	NA NA	NA NA	ND(0.010) ND(0.010)	ND(0.010) [ND(0.010)]
Nitrobenzene		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosodiethylan	nine	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosodimethyla		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitroso-di-n-buty		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitroso-di-n-pro		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosodiphenyla	•	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosomethylet		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosomorpholi		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosopiperidin		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
N-Nitrosopyrrolidin		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
o,o,o-Triethylphos		NA NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
o-Toluidine		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
p-Dimethylaminoa	zobenzene	NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Pentachlorobenze		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Pentachloroethane		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Pentachloronitrobe		NA NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Pentachloropheno		NA NA	NA NA	ND(0.050)	ND(0.050) [ND(0.050)]
Phenacetin		NA NA	NA NA	ND(0.010) J	ND(0.010) [ND(0.010)]
		NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]
Phenanthrene	l l	INA	111/7		
Phenanthrene Phenol		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]

Table A-1 Fall 2007 Groundwater Analytical Results

Darameter	Sample ID: Date Collected:	H78B-16 10/10/07	H78B-17R 10/11/07	OPCA-MW-1R 10/05/07	OPCA-MW-2 10/08/07
Parameter	ganics (continued)	10/10/07	10/11/07	10/05/07	10/08/07
	janics (continued)	NΙΔ	NIA	ND(0.040)	ND(0.040) [ND(0.040)]
Pyrene Pyridine		NA NA	NA NA	ND(0.010) ND(0.010) J	ND(0.010) [ND(0.010)] ND(0.010) [ND(0.010)]
Safrole		NA NA	NA NA	ND(0.010) 3	ND(0.010) [ND(0.010)]
Thionazin		NA NA	NA NA	ND(0.010)	ND(0.010) [ND(0.010)]
Furans		INA	INA	14D(0.020)	ND(0.020) [ND(0.020)]
2,3,7,8-TCDF		NA	NA	0.0000000025 J	ND(0.0000000014) [ND(0.0000000015) X]
TCDFs (total)		NA NA	NA NA	0.000000035 J	0.00000000014) [ND(0.000000013) X]
1,2,3,7,8-PeCDF		NA NA	NA NA	ND(0.00000050)	ND(0.000000050) [ND(0.000000051)]
2,3,4,7,8-PeCDF		NA NA	NA NA	ND(0.0000000000)	ND(0.0000000050) [ND(0.0000000051)]
PeCDFs (total)		NA NA	NA NA	0.000000000000000000000000000000000000	0.000000016 J [0.000000049 J]
1,2,3,4,7,8-HxCD	F	NA NA	NA NA	ND(0.000000010	ND(0.000000050) [0.0000000055 J]
1,2,3,6,7,8-HxCD		NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
1,2,3,7,8,9-HxCD		NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
2,3,4,6,7,8-HxCD		NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
HxCDFs (total)		NA	NA	0.00000014	ND(0.0000000050) [0.000000017 J]
1,2,3,4,6,7,8-HpC	DF	NA	NA	ND(0.000000050)	ND(0.0000000050) [ND(0.0000000051)]
1,2,3,4,7,8,9-HpC		NA	NA	ND(0.0000000050)	ND(0.000000050) [ND(0.000000051)]
HpCDFs (total)		NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
OCDF		NA	NA	ND(0.00000010)	ND(0.000000010) [ND(0.000000010)]
Dioxins	L.			, ,	, , , , , , , , , , , , , , , , , , , ,
2,3,7,8-TCDD		NA	NA	ND(0.0000000013)	ND(0.000000014) [ND(0.000000018) X]
TCDDs (total)		NA	NA	ND(0.0000000013)	ND(0.0000000014) [ND(0.0000000012)]
1,2,3,7,8-PeCDD		NA	NA	ND(0.0000000050)	ND(0.000000050) [ND(0.000000051)]
PeCDDs (total)		NA	NA	ND(0.0000000050)	ND(0.000000050) [ND(0.000000051)]
1,2,3,4,7,8-HxCD	D	NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
1,2,3,6,7,8-HxCD	D	NA	NA	ND(0.000000050)	ND(0.0000000050) [ND(0.0000000051)]
1,2,3,7,8,9-HxCD	D	NA	NA	ND(0.000000050)	ND(0.0000000050) [ND(0.0000000051)]
HxCDDs (total)		NA	NA	ND(0.000000050)	ND(0.0000000050) [ND(0.0000000051)]
1,2,3,4,6,7,8-HpC	CDD	NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
HpCDDs (total)		NA	NA	ND(0.0000000050)	ND(0.0000000050) [ND(0.0000000051)]
OCDD		NA	NA	ND(0.00000010)	ND(0.000000010) [0.000000015 J]
Total TEQs (WHO		NA	NA	0.000000066	0.0000000065 [0.0000000071]
Inorganics-Unfil	tered (sulfide)				
Sulfide		NA	NA	ND(1.00)	ND(1.00) J [ND(1.00) J]
Inorganics-Filter	red				
Antimony		NA	NA	ND(0.0400)	ND(0.0400) [ND(0.0400)]
Arsenic		NA	NA	ND(0.0100)	ND(0.0100) J [ND(0.0100) J]
Barium		NA	NA	ND(0.107)	0.0144 B [0.0128 B]
Beryllium		NA	NA	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Cadmium		NA	NA	ND(0.0050) J	ND(0.00500) J [ND(0.00500) J]
Chromium		NA	NA	ND(0.0100) J	ND(0.0100) [ND(0.0100)]
Cobalt		NA	NA	ND(0.0100)	ND(0.0100) [ND(0.0100)]
Copper		NA	NA	ND(0.0100) J	ND(0.0100) [ND(0.0100)]
Cyanide-MADEP	(PAC)	NA	NA	ND(0.00600)	ND(0.00600) [ND(0.00600)]
Lead		NA	NA	ND(0.0100) J	ND(0.0100) [ND(0.0100)]
Mercury		NA	NA	ND(0.000285)	ND(0.000285) [ND(0.000285)]
Nickel		NA	NA	ND(0.0100) J	0.00638 B [ND(0.0100)]
Selenium		NA	NA	ND(0.0200) J	ND(0.0200) J [ND(0.0200) J]
Silver		NA	NA	ND(0.0100) J	ND(0.0100) J [ND(0.0100) J]
Thallium		NA	NA	ND(0.0100)	ND(0.0100) [ND(0.0100)]
Tin		NA	NA	ND(0.100) J	ND(0.0100) [ND(0.0100)]
Vanadium		NA	NA	ND(0.0500)	ND(0.0500) [ND(0.0500)]
Zinc		NA	NA	ND(0.0200)	ND(0.0200) [ND(0.0200)]

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	OPCA-MW-3 10/09/07	OPCA-MW-4 10/09/07	OPCA-MW-5R 10/09/07	OPCA-MW-6 10/15/07
Volatile Organi		10/03/07	10/03/01	10/03/01	10/13/01
		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,1		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
, ,		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane		ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
1,1-Dichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane		ND(0.0010) ND(0.0050) J	(/	()	\ /
1,2-Dibromo-3-chloropropane			ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethane		ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
1,2-Dichloroethane		(/	(/		\ /
1,2-Dichloropropane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane		ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
2-Butanone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Chloro-1,3-butadiene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Chloroethylvin	yietner	ND(0.013) J	ND(0.013) J	ND(0.013) J	ND(0.013) J
2-Hexanone		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
4-Methyl-2-penta	anone	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Acrolein		ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Acrylonitrile		ND(0.025) J	ND(0.025) J	ND(0.025) J	ND(0.025) J
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010) J
Bromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Tetrachl	oride	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene		ND(0.0010)	ND(0.0010)	0.00024 J	ND(0.0010)
Chloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichlorop		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluoromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
lodomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) J
Methyl Methacry		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Methylene Chlor	ride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Styrene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene		ND(0.0010)	0.00032 J	0.00011 J	ND(0.0010)
trans-1,2-Dichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,3-Dichloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
trans-1,4-Dichloro-2-butene		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0010)	0.0017	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Acetate		ND(0.0025)	ND(0.0025)	ND(0.0025)	ND(0.0025)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Xylenes (total)		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs		ND(0.10)	0.0020 J	0.00035 J	ND(0.10)

Table A-1 Fall 2007 Groundwater Analytical Results

Parameter	Sample ID: Date Collected:	OPCA-MW-3 10/09/07	OPCA-MW-4 10/09/07	OPCA-MW-5R 10/09/07	OPCA-MW-6 10/15/07
PCBs-Filtered					1
Aroclor-1016		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1221		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1232		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1242		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1248		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1254		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Aroclor-1260		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Total PCBs		ND(0.000065)	ND(0.000065)	ND(0.00010)	ND(0.000065)
Semivolatile Org	ganics				
1,2,4,5-Tetrachlorobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Naphthoquinone		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1-Naphthylamine		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,3,4,6-Tetrachlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrophenol		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dichlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Acetylaminofluorene		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2-Chloronaphthalene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylphenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) J
2-Naphthylamine		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050) J
2-Nitroaniline		ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
2-Nitrophenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) ND(0.010) J
2-Picoline		ND(0.010) ND(0.010) J	ND(0.010) ND(0.010) J	ND(0.010) ND(0.010) J	ND(0.010) J
3&4-Methylphenol 3,3'-Dichlorobenzidine		ND(0.010) 3	ND(0.010) 3 ND(0.020)	ND(0.010) 3	ND(0.010) 3
3,3-Dichlorobenzidine 3,3'-Dimethylbenzidine		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050)
3-Methylcholanthrene		ND(0.030) 3	ND(0.030) 3 ND(0.010)	ND(0.010)	ND(0.030)
3-Nitroaniline		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Aminobiphenyl		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Chlorobenzilate		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenyl-phenylether		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitroaniline		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitrophenol		ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroquinoline-1-oxide		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050)
4-Phenylenediamine		ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
5-Nitro-o-toluidine		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine		ND(0.050) J	ND(0.050) J	ND(0.050) J	ND(0.050) J
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthylene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetophenone		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aniline		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

Table A-1 Fall 2007 Groundwater Analytical Results

Sample ID: Parameter Date Collected:	OPCA-MW-3 10/09/07	OPCA-MW-4 10/09/07	OPCA-MW-5R 10/09/07	OPCA-MW-6 10/15/07
Semivolatile Organics (continued)				
Anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Aramite	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Benzidine	ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020) J
Benzo(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ois(2-Chloroethoxy)methane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ois(2-Chloroethyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ois(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ois(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Butylbenzylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
luorene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	ND(0.020) J	ND(0.020) J	ND(0.020) J	ND(0.020)
Hexachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Hexachloropropene	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ndeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
sodrin	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
sophorone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
sosafrole	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methapyrilene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) J
N-Nitrosomorpholine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
p-Toluidine	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenacetin	ND(0.030)	ND(0.030)	ND(0.030)	ND(0.030)
	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene				
Phenanthrene Phenol	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

Table A-1 Fall 2007 Groundwater Analytical Results

_	Sample ID:	OPCA-MW-3	OPCA-MW-4	OPCA-MW-5R	OPCA-MW-6
Parameter	Date Collected:	10/09/07	10/09/07	10/09/07	10/15/07
	ganics (continued)		1 15/2 2/2	1	1
Pyrene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Pyridine		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Safrole		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Thionazin		ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Furans	T				
2,3,7,8-TCDF		ND(0.0000000015)	ND(0.0000000020)	0.0000000076 J	ND(0.0000000021)
TCDFs (total)		ND(0.0000000015)	ND(0.0000000020)	0.00000069 J	ND(0.0000000021)
1,2,3,7,8-PeCDF		ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052) J	ND(0.0000000052)
2,3,4,7,8-PeCDF		ND(0.0000000050)	ND(0.000000052)	ND(0.000000052)	ND(0.000000052)
PeCDFs (total)	_	ND(0.0000000050)	ND(0.0000000056)	0.00000090 J	ND(0.0000000052)
1,2,3,4,7,8-HxCE		ND(0.0000000050)	ND(0.0000000052)	0.00000053	ND(0.0000000052)
1,2,3,6,7,8-HxCE		ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-HxCE		ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	ND(0.0000000052)
2,3,4,6,7,8-HxCE)F	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	ND(0.0000000052)
HxCDFs (total)		ND(0.0000000050)	ND(0.0000000052)	0.00000042 J	ND(0.0000000052)
1,2,3,4,6,7,8-Hp0		ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	0.0000000052 J
1,2,3,4,7,8,9-Hp(CDF	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
HpCDFs (total)		ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	0.0000000052 J
OCDF		ND(0.00000010)	ND(0.00000010)	ND(0.00000010)	0.00000013 J
Dioxins	T				
2,3,7,8-TCDD		ND(0.000000017)	ND(0.0000000025)	ND(0.000000014)	ND(0.0000000028)
TCDDs (total)		ND(0.0000000017)	ND(0.0000000025)	ND(0.000000014)	ND(0.0000000028)
1,2,3,7,8-PeCDD)	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	ND(0.0000000052)
PeCDDs (total)	ND.	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052) J	ND(0.0000000052)
1,2,3,4,7,8-HxCE		ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,6,7,8-HxCE		ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,7,8,9-HxCE	טנ	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052)	ND(0.0000000052)
HxCDDs (total)	200	ND(0.0000000050)	ND(0.0000000052)	ND(0.0000000052)	ND(0.0000000052)
1,2,3,4,6,7,8-Hp(שטט	ND(0.0000000050)	ND(0.0000000052)	ND(0.000000052) ND(0.000000052)	ND(0.000000052) ND(0.000000052)
HpCDDs (total) OCDD		ND(0.0000000050) ND(0.000000010)	ND(0.000000052) ND(0.000000010)	0.0000000052)	0.0000000052)
Total TEQs (WH	O TEEs)	0.0000000000000000000000000000000000000	0.0000000010)	0.00000018 3	0.0000000163
Inorganics-Unfil		0.000000007	0.000000073	0.00000012	0.000000074
	iterea (suifiae)	ND(4.00)	ND(4.00)	ND(4.00) I	NID(4.00)
Sulfide		ND(1.00)	ND(1.00)	ND(1.00) J	ND(1.00)
Inorganics-Filte	rea	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Antimony		ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic Barium		ND(0.0100) 0.0620 B	ND(0.0100) 0.0270 B	ND(0.0100) 0.0536 B	ND(0.0100)
Beryllium		0.0020 B 0.000330 B			ND(0.500)
Cadmium		ND(0.00500) J	0.00373 B ND(0.00500) J	0.000330 B ND(0.00500) J	0.00366 J ND(0.00500)
Chromium		ND(0.00300) J	ND(0.00500) J	ND(0.00500) J	ND(0.00500)
		ND(0.0100) 3	` '	(/ -	
Cobalt		ND(0.0100) ND(0.0100)	ND(0.0100) ND(0.0100)	ND(0.0100) ND(0.0100)	ND(0.0100) ND(0.200)
Copper Cyanide-MADEP	(DAC)	ND(0.0100)	ND(0.0100) ND(0.00600)	ND(0.0100)	ND(0.200) ND(0.00600)
Lead	(PAC)	ND(0.00600)	ND(0.00600)	ND(0.00600)	ND(0.00600)
		ND(0.0100) ND(0.000285)	ND(0.0100) ND(0.000285)	ND(0.0100) ND(0.000285)	ND(0.0100) ND(0.000570)
Mercury Nickel		ND(0.000265)	ND(0.000265)	ND(0.000265) ND(0.0100)	ND(0.000570)
Selenium		ND(0.0100) ND(0.0200)	ND(0.0100) ND(0.0200)	ND(0.0100) ND(0.0200)	ND(0.0500) ND(0.0200)
Silver		ND(0.0200) ND(0.0100)	ND(0.0200) ND(0.0100)	ND(0.0200) ND(0.0100)	ND(0.0200) ND(0.0100)
Thallium		ND(0.0100) J	ND(0.0100) ND(0.0100) J	ND(0.0100)	ND(0.0100) ND(0.0100) J
Tin		ND(0.0100) 3	ND(0.0100) 3	ND(0.0100) 3	0.00939 J
Vanadium		ND(0.0100)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Zinc		ND(0.0200)	0.0100 B	0.00813 B	0.0196 B
<u></u>		140(0.0200)	0.0100 D	0.00010 D	0.0190 D

Table A-1 Fall 2007 Groundwater Analytical Results

	Sample ID:	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter	Date Collected:	10/11-10/18/2007	10/11/07	10/08/07
Volatile Organics	<u>'</u>			
1,1,1,2-Tetrachlor	oethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,1-Trichloroetha	ane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2,2-Tetrachlor	oethane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1,2-Trichloroetha	ane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethan	е	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethen		ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropro	pane	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dibromo-3-chl	oropropane	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
1,2-Dibromoethan	е	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethan	е	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloropropa	ne	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,4-Dioxane		ND(0.10) J	ND(0.10) J	ND(0.10) J
2-Butanone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Chloro-1,3-buta	diene	ND(0.0010)	ND(0.0010)	ND(0.0010)
2-Chloroethylvinyl	ether	ND(0.013) J	ND(0.013) J	ND(0.013) J
2-Hexanone		ND(0.0050)	ND(0.0050)	ND(0.0050)
3-Chloropropene		ND(0.0010)	ND(0.0010)	ND(0.0010)
4-Methyl-2-pentar	none	ND(0.0050)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Acetonitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J
Acrolein		ND(0.025) J	ND(0.025) J	ND(0.025) J
Acrylonitrile		ND(0.025) J	ND(0.025) J	ND(0.025) J
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromodichloromet	thane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0010) J	ND(0.0010) J	ND(0.0010)
Bromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Disulfide		ND(0.0010)	ND(0.0010)	ND(0.0010)
Carbon Tetrachlor	ride	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chlorobenzene		ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroethane		ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)
cis-1,3-Dichloropro		ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromochlorome	thane	ND(0.0010)	ND(0.0010)	ND(0.0010)
Dibromomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)
Dichlorodifluorome		ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethyl Methacrylate	9	ND(0.0010)	ND(0.0010)	ND(0.0010)
Ethylbenzene		ND(0.0010)	ND(0.0010)	ND(0.0010)
Iodomethane		ND(0.0010)	ND(0.0010)	ND(0.0010)
Isobutanol		ND(0.050) J	ND(0.050) J	ND(0.050) J
Methacrylonitrile		ND(0.010) J	ND(0.010) J	ND(0.010) ND(0.0010)
Methyl Methacryla		ND(0.0010)	ND(0.0010)	(/
Methylene Chlorid	le	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile		ND(0.020) J	ND(0.020) J	ND(0.020) J
Styrene		ND(0.0010)	ND(0.0010)	ND(0.0010)
Tetrachloroethene	;	ND(0.0010)	ND(0.0010)	ND(0.0010)
Toluene	othono	0.00029 J	ND(0.0010)	0.00010 J
trans-1,2-Dichloro trans-1,3-Dichloro		ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010)
trans-1,3-Dichloro		ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)	ND(0.0010) ND(0.0050)
	-∠-buterie	ND(0.0050) ND(0.0010)	` ,	` '
Trichloroethene Trichlorofluoromet	hane	ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
Vinyl Acetate	liaile	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)	ND(0.0010) ND(0.0025)
Vinyl Acetate Vinyl Chloride		ND(0.0025) ND(0.0010)	ND(0.0025) ND(0.0010)	ND(0.0025) ND(0.0010)
Xylenes (total)		ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs		0.00029 J	ND(0.0010) ND(0.10)	0.00010)
TOTAL VOUS		0.00029 J	(ט. ואט (ט. וט)	0.00010 J

Table A-1 Fall 2007 Groundwater Analytical Results

Sample ID:	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter Date Collected:	10/11-10/18/2007	10/11/07	10/08/07
PCBs-Filtered	•		
Aroclor-1016	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aroclor-1221	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aroclor-1232	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aroclor-1242	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aroclor-1248	ND(0.00010)	ND(0.00010)	ND(0.00010)
Aroclor-1254	0.0012	ND(0.00010)	ND(0.00010)
Aroclor-1260	0.00091	ND(0.00010)	ND(0.00010)
Total PCBs	0.00211	ND(0.00010)	ND(0.00010)
Semivolatile Organics	L.	,	,
1,2,4,5-Tetrachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.050)	ND(0.050)	ND(0.050)
1,3-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.050)	ND(0.050)	ND(0.050)
2,3,4,6-Tetrachlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010)	ND(0.010)	ND(0.010)
2-Acetylaminofluorene	ND(0.020)	ND(0.020)	ND(0.020)
2-Chloronaphthalene	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.050)	ND(0.050)	ND(0.050) J
2-Nitroaniline	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitrophenol	ND(0.010)	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	ND(0.010)	ND(0.010)
3&4-Methylphenol	ND(0.010) J	ND(0.010) J	ND(0.010) J
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020)	ND(0.020)
3,3'-Dimethylbenzidine	ND(0.050) J	ND(0.050) J	ND(0.050) J
3-Methylcholanthrene	ND(0.010)	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050)	ND(0.050)	ND(0.050)
4-Aminobiphenyl	ND(0.010)	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether 4-Chloro-3-Methylphenol	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010) ND(0.050)	ND(0.010)	ND(0.010) ND(0.050)
4-Chlorobenzilate	\ /	ND(0.050)	
	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenyl-phenylether 4-Nitroaniline	ND(0.010) ND(0.050)	ND(0.010) ND(0.050)	ND(0.010) ND(0.050)
4-Nitrophenol	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitrophenoi 4-Nitroquinoline-1-oxide	ND(0.050) ND(0.050) J	ND(0.050) ND(0.050) J	ND(0.050) ND(0.050) J
4-Phenylenediamine	ND(0.030) J ND(0.020) J	ND(0.030) J ND(0.020) J	ND(0.030) J
5-Nitro-o-toluidine	ND(0.020) 3 ND(0.010)	ND(0.020) 3 ND(0.010)	ND(0.020) 3 ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010) ND(0.050) J	ND(0.010) ND(0.050) J	ND(0.010) ND(0.050) J
Acenaphthene	ND(0.050) 3 ND(0.010)	ND(0.030) 3	ND(0.050) 3 ND(0.010)
Acenaphthylene	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Acetophenone	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)
Aniline	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)
Armine	(טוטטטויו)	(טוט,טועוי)	(טוט,טוט)

Table A-1 Fall 2007 Groundwater Analytical Results

Sample ID:	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter Date Collected:	10/11-10/18/2007	10/11/07	10/08/07
Semivolatile Organics (continued)			
Anthracene	ND(0.010)	ND(0.010)	ND(0.010)
Aramite	ND(0.010) J	ND(0.010) J	ND(0.010) J
Benzidine	ND(0.020) J	ND(0.020) J	ND(0.020) J
Benzo(a)anthracene	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene Benzo(g,h,i)perylene	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.010)	0.0017 J	ND(0.010)
Butylbenzylphthalate	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010)
Diethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-Octylphthalate Diphenylamine	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Ethyl Methanesulfonate	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Fluoranthene	ND(0.010)	ND(0.010)	ND(0.010) ND(0.010)
Fluorene	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	ND(0.020) J	ND(0.020) J	ND(0.020) J
Hexachloroethane	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.010) J	ND(0.010) J	ND(0.010) J
Hexachloropropene	ND(0.020)	ND(0.020)	ND(0.020)
Indeno(1,2,3-cd)pyrene	ND(0.010)	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	ND(0.010)	ND(0.010)
Methapyrilene	ND(0.010)	ND(0.010)	ND(0.010)
Methyl Methanesulfonate	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010)
Nitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine N-Nitrosodimethylamine	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodimetriylamine N-Nitroso-di-n-butylamine	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	ND(0.010)	ND(0.010) ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	ND(0.010)	ND(0.010)
o,o,o-Triethylphosphorothioate	ND(0.010)	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	ND(0.010)	ND(0.010)
p-Dimethylaminoazobenzene	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	ND(0.050)	ND(0.050)
Phenacetin	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	ND(0.010)	ND(0.010)	ND(0.010)
Phenol	ND(0.010)	ND(0.010)	ND(0.010)
Pronamide	ND(0.010)	ND(0.010)	ND(0.010)

Table A-1 Fall 2007 Groundwater Analytical Results

Sample ID:	OPCA-MW-7	OPCA-MW-8	SCH-4
Parameter Date Collected:	10/11-10/18/2007	10/11/07	10/08/07
Semivolatile Organics (continued)	10/11/10/2001	10/11/01	13/33/31
Pyrene	ND(0.010)	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	ND(0.010)	ND(0.010)
Safrole	ND(0.010)	ND(0.010)	ND(0.010)
Thionazin	ND(0.020)	ND(0.020)	ND(0.020)
Furans	()	(/	(/
2,3,7,8-TCDF	ND(0.0000000035)	ND(0.0000000026)	ND(0.000000017)
TCDFs (total)	ND(0.0000000035)	ND(0.0000000026)	0.00000012 J
1,2,3,7,8-PeCDF	ND(0.000000054)	ND(0.0000000050)	ND(0.000000053)
2,3,4,7,8-PeCDF	ND(0.000000054)	ND(0.000000050)	ND(0.0000000053)
PeCDFs (total)	ND(0.0000000054)	ND(0.000000050)	0.000000039 J
1,2,3,4,7,8-HxCDF	ND(0.0000000054)	ND(0.000000050)	0.0000000079 J
1,2,3,6,7,8-HxCDF	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,7,8,9-HxCDF	ND(0.000000054)	ND(0.000000050)	ND(0.000000053)
2,3,4,6,7,8-HxCDF	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
HxCDFs (total)	ND(0.0000000054)	ND(0.000000050)	0.00000016 J
1,2,3,4,6,7,8-HpCDF	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
HpCDFs (total)	ND(0.000000054)	ND(0.000000050)	ND(0.000000053)
OCDF	ND(0.000000011)	ND(0.00000010)	ND(0.00000011)
Dioxins			
2,3,7,8-TCDD	ND(0.0000000045)	ND(0.000000032)	ND(0.000000014)
TCDDs (total)	ND(0.0000000045)	ND(0.000000032)	ND(0.000000014)
1,2,3,7,8-PeCDD	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
PeCDDs (total)	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,4,7,8-HxCDD	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,6,7,8-HxCDD	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,7,8,9-HxCDD	ND(0.0000000054)	ND(0.000000050)	ND(0.000000053)
HxCDDs (total)	ND(0.000000054)	ND(0.000000050)	ND(0.000000053)
1,2,3,4,6,7,8-HpCDD	ND(0.000000054)	ND(0.000000059)	ND(0.000000053)
HpCDDs (total)	ND(0.000000054)	ND(0.0000000059)	ND(0.0000000053)
OCDD	0.00000015 J	0.000000020 J	ND(0.00000011)
Total TEQs (WHO TEFs)	0.0000000086	0.000000075	0.000000074
Inorganics-Unfiltered (sulfide)			
Sulfide	ND(1.00) J	ND(1.00)	ND(1.00) J
Inorganics-Filtered			
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100)	ND(0.0100)	ND(0.0100) J
Barium	0.0869 B	ND(0.100)	0.0676 B
Beryllium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J
Cadmium	ND(0.00500)	ND(0.00500)	ND(0.00500) J
Chromium	ND(0.0100)	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0100)	ND(0.0100)	ND(0.0100)
Copper	ND(0.0100) J	ND(0.0100) J	ND(0.0100)
Cyanide-MADEP (PAC)	ND(0.00600)	ND(0.00600)	ND(0.00600)
Lead	ND(0.0100)	ND(0.0100)	ND(0.0100)
Mercury	ND(0.000285)	ND(0.000285)	ND(0.000285)
Nickel Solonium	ND(0.0100) ND(0.0200)	ND(0.0100) ND(0.0200)	0.00510 B
Selenium	ND(0.0200) ND(0.0100)	,	ND(0.0200) J
Silver Thallium	ND(0.0100) ND(0.0100) J	ND(0.0100)	ND(0.0100) J ND(0.0100)
Tin	ND(0.0100) J	ND(0.0100) J ND(0.100) J	ND(0.0100)
Vanadium	ND(0.100) 3 ND(0.0500)	ND(0.100) 3 ND(0.0500)	ND(0.0100) ND(0.0500)
	0.0208	0.00726 B	0.290
Zinc	0.0200	0.00720 D	0.290

Table A-1 Fall 2007 Groundwater Analytical Results

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Notes:

- 1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. for analysis of Appendix IX+3 constituents.
- 2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
- 3. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- 5. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.
- X Estimated maximum possible concentration.

Inorganics

- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.

ARCADIS

Appendix B

Historical Groundwater Data

Table B-1 OPCA Monitoring Program

Parameter Date Collected: 06/14/99 05/01/01 09/28/06 11/07/06 Volatile Organics 1.1,1-Trichloroethane ND(0.0050) ND(0.0050) NA ND(0.0010) NA ND(0.0010) NA ND(0.0010) NA ND(0.0050) NA ND(0.0010) ND(0.0050)		Sample ID:	78-1	78-1	78-1	78-1
1.1.1-Tichloroethane			06/14/99	05/01/01	09/28/06	11/07/06
1.1-Dichloroethane						
Acetone						
Benzene		nane				
Biomoform ND(0.0050) ND(0.0050) NA ND(0.0010) Chloroformane ND(0.0050) ND(0.0050) NA ND(0.0010) Chloroform ND(0.0050) ND(0.0050) NA ND(0.0010) Chloromethane ND(0.0050) ND(0.0050) NA ND(0.0010) Tetrachicroethene ND(0.0050) ND(0.0020) NA ND(0.0010) Tetrachicroethene ND(0.0050) ND(0.0020) NA ND(0.0010) Titchicroforethene ND(0.0050) ND(0.0050) NA ND(0.0010) Titchicroethene ND(0.0050) ND(0.0050) NA ND(0.0010) Veryl Chloride ND(0.010) ND(0.0050) NA ND(0.0010) Veryl Chloride ND(0.010) ND(0.0020) NA ND(0.0010) Total VOCS ND(0.20) 0.0047 J NA ND(0.0010) Total VOCS ND(0.20) 0.0047 J NA ND(0.0010) Total VOCS ND(0.20) ND(0.00055) NA NA Acodor-1260 ND(0.00010) ND(0.000065) NA NA Total PCBs ND(0.00010) ND(0.000065) NA NA Total PCBs ND(0.00010) ND(0.000065) NA NA PCBs-Filtered NA ND(0.000065) ND(0.000062] J ND(0.00011) Acodor-1260 NA ND(0.0000065) ND(0.000062] J ND(0.00011) Acodor-1260 NA ND(0.0000065) ND(0.000062] J ND(0.00011) Acodor-1260 ND(0.0000065) ND(0.000065) ND(0.000062] J ND(0.0000062] J ND(0.0000062] J Acodor-1260 ND(0.0000065) ND(0.0000065) ND(0.0000062] J ND(0.0000065) Acodor-1260 ND(0.0000065) ND(0.0000065						
Chlorobenzene						
Chloroform ND(0.0050) ND(0.0050) NA ND(0.0010)			(/	(,		\ /
Chloromethane		е				
Tetrachiorethene						
Toluene						
Trichlorelehene ND(0.0050) ND(0.0050) NA ND(0.0010) Very Choride ND(0.010) ND(0.0050) NA ND(0.0010) Very Choride ND(0.010) ND(0.0020) NA ND(0.0010) Total VOCs ND(0.0001) ND(0.00065) NA NA Arcelor-1256 ND(0.00010) ND(0.00065) NA NA Arcelor-1256 ND(0.00010) ND(0.00065) NA NA PCBs-Filtered NA NA NA NA Arcelor-1260 NA ND(0.00065) ND(0.00062) ND(0.00011) Arcelor-1260 NA ND(0.00065) ND(0.00062) ND(0.00011) Arcelor-1260 NA ND(0.00065) ND(0.00062) ND(0.00011) Semivolatile Organics 3.3-Dichlorobenzidine ND(0.050) ND(0.00065) ND(0.00062) ND(0.00011) Semivolatile Organics 3.3-Dichlorobenzidine ND(0.010) ND(0.010) NA ND(0.020) Semivolatile Organics 3.3-Dichlorobenzidine ND(0.050) ND(0.0000 </td <td></td> <td>ene</td> <td></td> <td></td> <td></td> <td></td>		ene				
Tirchlorofluoromethane ND(0.0050) ND(0.0050) NA ND(0.0010) VMy Chloride ND(0.010) ND(0.0020) NA ND(0.0010) Total VCCs ND(0.20) 0.0047 J NA ND(0.0010) Total VCCs ND(0.20) 0.0047 J NA ND(0.0010) Total VCCs ND(0.20) 0.0047 J NA ND(0.0010) ND(0.00065) NA NA ND(0.00010) ND(0.00065) NA NA NA ND(0.0011254 ND(0.00011) ND(0.00065) NA NA NA NA ND(0.0011260 ND(0.00011) ND(0.00065) NA						
Viryl Chloride						
Total VCGs		memane				
PCBs-Unfiltered						
Accolor-1264		·od	ND(0.20)	0.0047 3	INA	0.000743
Acocio+1260 ND(0.00010) ND(0.000065) NA		eu	ND(0.00040)	ND(0.0000CE)	NΙΛ	NIA
Total PCBs						
PCBs-Filtered			()			I .
Arcolor-1254			ND(0.00010)	ND(0.000063)	INA	INA
Arcolor1280		1	NΙΛ	ND(0.000065)	ND(0.000063) I	ND(0.00011)
Total PCBS						
Semivolatile Organics						ND(0.00011)
3.3°-Dichlorobenzidine		Organias	INA	ND(0.000063)	ND(0.000062) J	ND(0.00011)
Acenaphthene			ND(0.050)	ND(0.020)	NΙΛ	ND(0.020) I
bis(2E:Ethylhexyl)phthalate ND(0.010) ND(0.060) NA ND(0.010) Dibenzofuran ND(0.010) ND(0.010) ND(0.010) NA ND(0.010) Dimethylphthalate ND(0.010) ND(0.010) NA ND(0.010) Naphthalene ND(0.010) ND(0.010) NA ND(0.010) Furans 2,3,7,8-TCDF ND(0.000000060) ND(0.000000011) NA ND(0.000000011) TCDFs (total) ND(0.0000000000) ND(0.00000001) X NA ND(0.000000011) 12,3,4,7,8-PeCDF ND(0.0000000021) ND(0.000000001) X NA ND(0.0000000053) 12,3,4,7,8-PeCDF ND(0.0000000021) ND(0.000000012) NA ND(0.000000053) 12,3,4,7,8-PeCDF ND(0.0000000021) ND(0.000000021) NA ND(0.000000053) 12,2,3,4,7,8-PeCDF ND(0.0000000021) ND(0.000000024) NA ND(0.000000053) 12,2,3,4,6,7,8-HxCDF ND(0.000000062) ND(0.000000024) NA ND(0.000000053) 1,2,3,4,6,7,8-HxCDF ND(0.0000000093) NA ND(0.0000000053) <td></td> <td></td> <td>(/</td> <td></td> <td></td> <td></td>			(/			
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Dimethylphthalate		yı)pntnalate	(/	(,		
Naphthalene		lata				
Furans		iate				
2,3,7,8-TCDF			ND(0.010)	ND(0.010)	INA	ND(0.010) 3
TCDFs (total)		1	ND(0.00000000000)	ND(0.000000011)	NIA	ND(0.0000000011)
1,2,3,7,8-PeCDF ND(0.000000021) ND(0.000000013) XB NA ND(0.000000053) 2,3,4,7,8-PeCDF ND(0.0000000021) ND(0.0000000021) NA ND(0.000000053) PeCDFS (total) ND(0.0000000021) ND(0.0000000024) NA ND(0.000000053) 1,2,3,4,7,8-HxCDF ND(0.0000000060) ND(0.0000000021) NA ND(0.0000000053) 1,2,3,6,7,8-HxCDF ND(0.000000062) ND(0.0000000080) NA ND(0.0000000053) 1,2,3,7,8,9-HxCDF ND(0.0000000062) ND(0.0000000080) NA ND(0.0000000053) 1,2,3,4,6,7,8-HxCDF ND(0.000000064) ND(0.0000000080) NA ND(0.0000000053) HxCDFS (total) ND(0.000000064) ND(0.0000000080) NA ND(0.000000053) HxCDFS (total) ND(0.000000064) ND(0.0000000044) NA ND(0.000000053) 1,2,3,4,6,7,8-HpCDF ND(0.000000011) ND(0.0000000013) NA ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000011) ND(0.000000017) NA ND(0.000000053) 1,2,3,4,7,8-HpCDF ND(0.000000011) ND(0.000000017) NA <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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PeCDFs (total) ND(0.000000021) ND(0.000000024) NA ND(0.000000053) 1,2,3,4,7,8-HxCDF ND(0.000000060) ND(0.0000000021) NA ND(0.000000053) 1,2,3,6,7,8-HxCDF ND(0.000000062) ND(0.0000000080) NA ND(0.000000053) 1,2,3,7,8,9-HxCDF ND(0.000000059) ND(0.0000000090) NA ND(0.000000053) 1,2,3,7,8,9-HxCDF ND(0.000000064) ND(0.0000000080) NA ND(0.000000053) 1,2,3,4,6,7,8-HxCDF ND(0.000000064) ND(0.0000000080) NA ND(0.000000053) 1,2,3,4,6,7,8-HxCDF ND(0.000000064) ND(0.0000000044) NA ND(0.000000053) 1,2,3,4,6,7,8-HyCDF ND(0.00000011) ND(0.0000000013) NA ND(0.000000053) 1,2,3,4,6,7,8-HyCDF ND(0.00000011) ND(0.000000017) NA ND(0.000000053) 1,2,3,4,6,7,8-HyCDF ND(0.00000011) ND(0.000000015) NA ND(0.000000053) 1,2,3,4,6,7,8-HyCDF ND(0.000000011) ND(0.0000000015) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.000000011) ND(0.0000000015) NA ND(0.0000000053) 1,2,3,7,8-PCDD ND(0.0000000090) ND(0.0000000014) NA ND(0.0000000014) 1,2,3,7,8-PCDD ND(0.0000000071) ND(0.000000016) NA ND(0.0000000053) 1,2,3,4,7,8-HyCDD ND(0.0000000071) ND(0.0000000014) NA ND(0.0000000053) 1,2,3,4,7,8-HyCDD ND(0.0000000086) ND(0.0000000014) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.0000000086) ND(0.0000000014) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.0000000086) ND(0.0000000012) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.0000000086) ND(0.0000000012) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.0000000013) ND(0.0000000014) NA ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.000000001	, , , ,		,	,		,
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1,2,3,7,8,9-HxCDF ND(0.000000059) ND(0.0000000090) NA ND(0.000000053) 2,3,4,6,7,8-HxCDF ND(0.000000064) ND(0.0000000080) NA ND(0.000000053) HxCDFs (total) ND(0.000000064) ND(0.0000000044) NA ND(0.000000053) 1,2,3,4,6,7,8-HpCDF ND(0.000000011) ND(0.000000013) NA ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000011) ND(0.000000017) NA ND(0.000000053) HpCDFs (total) ND(0.000000011) ND(0.000000017) NA ND(0.000000053) OCDF ND(0.000000011) ND(0.0000000015) NA ND(0.000000053) OCDF (total) ND(0.0000000011) ND(0.0000000032) NA ND(0.000000011) Dioxins ND(0.0000000001) ND(0.0000000014) NA ND(0.0000000014) TCDDs (total) ND(0.0000000090) ND(0.0000000014) NA ND(0.0000000014) PeCDbs (total) ND(0.000000071) ND(0.000000016) NA ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.000000069) ND(0.000000014) NA ND(0.000000053)						
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HxCDFs (total)			,	,		
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		/HO TEFs)	0.0000000071	0.000000024	NA	0.0000000000000000000000000000000000000

Table B-1 OPCA Monitoring Program

Sample ID:	78-1	78-1	78-1	78-1
Parameter Date Collected:	06/14/99	05/01/01	09/28/06	11/07/06
Inorganics-Unfiltered				
Antimony	ND(0.0600)	ND(0.0600)	NA	NA
Arsenic	ND(0.00600)	ND(0.0100)	NA	NA
Barium	0.0250	0.0330 B	NA	NA
Beryllium	ND(0.00600)	ND(0.00100)	NA	NA
Cadmium	ND(0.00600)	ND(0.00500)	NA	NA
Chromium	ND(0.0130)	ND(0.0100)	NA	NA
Cobalt	ND(0.0600)	ND(0.0500)	NA	NA
Copper	ND(0.0330)	0.00550 J	NA	NA
Mercury	ND(0.000500)	ND(0.000200)	NA	NA
Nickel	ND(0.0600)	ND(0.0400)	NA	NA
Selenium	ND(0.00600) J	ND(0.00500) J	NA	NA
Silver	ND(0.0130)	ND(0.00500)	NA	NA
Sulfide	ND(5.00)	ND(5.00)	NA	ND(1.00)
Thallium	ND(0.0130)	ND(0.0100) J	NA	NA
Tin	ND(0.300)	ND(0.100)	NA	NA
Vanadium	ND(0.0600)	ND(0.0500)	NA	NA
Zinc	0.0290	0.0200	NA	NA
Inorganics-Filtered				
Antimony	NA	ND(0.0600)	NA	ND(0.0400) J
Arsenic	NA	ND(0.0100)	NA	ND(0.0100) J
Barium	NA	0.0260 J	NA	ND(0.500) J
Beryllium	NA	ND(0.00100)	NA	0.000970 J
Cadmium	NA	ND(0.00500)	NA	ND(0.00500)
Chromium	NA	ND(0.0100)	NA	ND(0.0100)
Cobalt	NA	ND(0.0500)	NA	ND(0.0100) J
Copper	NA	0.00420 J	NA	ND(0.0100)
Mercury	NA	ND(0.000200)	NA	0.0000403 B
Nickel	NA	ND(0.0400)	NA	ND(0.0500) J
Selenium	NA	ND(0.00500) J	NA	ND(0.0200) J
Silver	NA	ND(0.00500)	NA	ND(0.0100)
Thallium	NA	ND(0.0100) J	NA	ND(0.0100) J
Tin	NA	ND(0.100)	NA	ND(0.100)
Vanadium	NA	ND(0.0500)	NA	ND(0.0500) J
Zinc	NA	0.0160 B	NA	0.00461 B

Table B-1 OPCA Monitoring Program

	Sample ID:	78-1	78-1	78-6	78-6
Parameter	Date Collected:	04/20/07	10/09/07	06/16/99	05/03/01
Volatile Organ	ics				
1,1,1-Trichloroe		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
1,1-Dichloroeth	ane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050) J	0.0023 J	ND(0.10)	ND(0.010)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Bromoform		ND(0.0010)	0.00048 J	ND(0.0050)	ND(0.0050)
Chlorobenzene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0050)
Tetrachloroethe	ene	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0020)
Toluene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichlorofluoror	nethane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0020)
Total VOCs		ND(0.10)	0.0028 J	ND(0.20)	ND(0.20)
PCBs-Unfiltere	ed				
Aroclor-1254		NA	NA	ND(0.000050)	ND(0.000065)
Aroclor-1260		NA	NA	ND(0.000050)	ND(0.000065)
Total PCBs		NA	NA	ND(0.000050)	ND(0.000065)
PCBs-Filtered					
Aroclor-1254		ND(0.00012)	ND(0.00010)	NA	ND(0.000065)
Aroclor-1260		ND(0.00012)	ND(0.00010)	NA	ND(0.000065)
Total PCBs		ND(0.00012)	ND(0.00010)	NA	ND(0.000065)
Semivolatile O	rganics				
3,3'-Dichlorobe	nzidine	ND(0.020)	ND(0.020)	ND(0.050)	ND(0.020)
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexy	d)phthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0060)
Dibenzofuran		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthala	ate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Furans					
2,3,7,8-TCDF		0.000000040 J	ND(0.000000018)	ND(0.000000032)	ND(0.0000000085) XB
TCDFs (total)		0.000000040 J	0.00000012 J	ND(0.000000032)	ND(0.000000020)
1,2,3,7,8-PeCD		ND(0.000000054)	ND(0.000000050)	ND(0.0000000079)	ND(0.0000000030)
2,3,4,7,8-PeCD)F	ND(0.000000054)	ND(0.000000050)	ND(0.000000083)	ND(0.0000000066)
PeCDFs (total)		ND(0.000000054)	0.000000034 J	ND(0.0000000083)	ND(0.000000017)
1,2,3,4,7,8-HxC		ND(0.000000054)	ND(0.000000050)	ND(0.0000000042)	ND(0.00000000083) XB
1,2,3,6,7,8-HxC		ND(0.000000054)	ND(0.000000050)	ND(0.000000043)	ND(0.0000000030)
1,2,3,7,8,9-HxC		ND(0.000000054)	ND(0.0000000050)	ND(0.0000000051)	ND(0.0000000030)
2,3,4,6,7,8-HxC	CDF	ND(0.000000054)	ND(0.000000050)	ND(0.0000000044)	ND(0.0000000030)
HxCDFs (total)		ND(0.0000000054)	0.000000010 J	ND(0.0000000051)	ND(0.0000000083) X
1,2,3,4,6,7,8-H		ND(0.000000054)	ND(0.0000000050)	ND(0.000000029)	ND(0.0000000050)
1,2,3,4,7,8,9-H	pCDF	ND(0.000000054)	ND(0.0000000050)	ND(0.000000029)	ND(0.00000000060)
HpCDFs (total)		ND(0.0000000054)	ND(0.0000000050)	ND(0.000000029)	ND(0.0000000050)
OCDF		ND(0.00000011)	ND(0.00000010)	ND(0.00000017)	ND(0.0000000090)
Dioxins	1	N. (2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	117 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
2,3,7,8-TCDD		ND(0.0000000023)	ND(0.0000000012)	ND(0.0000000035)	ND(0.00000000040)
TCDDs (total)	\D	ND(0.0000000023)	ND(0.0000000012)	ND(0.0000000035)	ND(0.000000010) X
1,2,3,7,8-PeCD		ND(0.0000000054)	ND(0.0000000050)	ND(0.000000034)	ND(0.0000000040)
PeCDDs (total)		ND(0.000000054)	ND(0.0000000050)	ND(0.000000034)	ND(0.0000000019) X
1,2,3,4,7,8-HxC		ND(0.0000000054)	ND(0.0000000050)	ND(0.000000014)	ND(0.00000000000)
1,2,3,6,7,8-HxC		ND(0.0000000054)	ND(0.0000000050)	ND(0.000000017)	ND(0.000000000000)
1,2,3,7,8,9-HxC		ND(0.0000000054)	ND(0.0000000050)	ND(0.000000015)	ND(0.00000000050)
HxCDDs (total)		ND(0.000000054)	ND(0.0000000050)	ND(0.000000017)	ND(0.0000000000) X
1,2,3,4,6,7,8-H		ND(0.000000054)	ND(0.0000000050)	ND(0.000000029)	ND(0.00000000080)
HpCDDs (total)		ND(0.000000054)	ND(0.0000000050)	ND(0.000000029)	ND(0.00000000080)
OCDD	HO TEE-'	ND(0.000000011)	ND(0.000000010)	ND(0.000000020)	ND(0.0000000079)
Total TEQs (W	HU IEFS)	0.000000077	0.000000064	0.00000025	0.0000000080

Table B-1 OPCA Monitoring Program

Sample ID:	78-1	78-1	78-6	78-6
Parameter Date Collected:	04/20/07	10/09/07	06/16/99	05/03/01
Inorganics-Unfiltered				
Antimony	NA	NA	ND(0.0600)	0.00250 J
Arsenic	NA	NA	0.0320	0.0160
Barium	NA	NA	0.0830	0.0960 B
Beryllium	NA	NA	ND(0.00600)	ND(0.00100)
Cadmium	NA	NA	ND(0.00600) J	ND(0.00500)
Chromium	NA	NA	ND(0.0130)	0.00250 B
Cobalt	NA	NA	ND(0.0600)	0.00480 B
Copper	NA	NA	ND(0.0330)	ND(0.0100) J
Mercury	NA	NA	ND(0.000500)	ND(0.000200)
Nickel	NA	NA	ND(0.0600)	ND(0.0400)
Selenium	NA	NA	ND(0.00600)	0.00490 B
Silver	NA	NA	ND(0.0130)	0.0110 J
Sulfide	ND(1.00)	R	ND(5.00)	ND(5.00)
Thallium	NA	NA	ND(0.0130)	ND(0.0100)
Tin	NA	NA	ND(0.300) j	ND(0.0300)
Vanadium	NA	NA	ND(0.0600)	ND(0.0500)
Zinc	NA	NA	0.0330	0.0110 B
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	NA	0.00370 J
Arsenic	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100)
Barium	0.0303 B	0.0172 B	NA	0.0450 B
Beryllium	ND(0.0100) J	ND(0.0100) J	NA	ND(0.00100)
Cadmium	ND(0.0100) J	ND(0.00500) J	NA	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100)	NA	0.00370 B
Cobalt	ND(0.0100) J	ND(0.0100)	NA	0.00370 B
Copper	ND(0.0100) J	ND(0.0100)	NA	ND(0.0250)
Mercury	0.000191 B	ND(0.000285)	NA	ND(0.000200)
Nickel	ND(0.0100) J	ND(0.0100)	NA	ND(0.0400)
Selenium	0.00976 B	ND(0.0200) J	NA	ND(0.00500)
Silver	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100)
Thallium	ND(0.0100) J	ND(0.0100)	NA	ND(0.0100) J
Tin	0.0163 J	ND(0.0100)	NA	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)
Zinc	0.00245 B	0.00586 B	NA	0.0180 J

Table B-1 OPCA Monitoring Program

Sample ID:	78-6	78-6	78-6
Parameter Date Collected:	09/28/06	11/07/06	04/19/07
Volatile Organics			
1,1,1-Trichloroethane	NA	ND(0.0010)	ND(0.0010)
1,1-Dichloroethane	NA	ND(0.0010)	ND(0.0010)
Acetone	NA	ND(0.0050) J	ND(0.0050) J
Benzene	NA	ND(0.0010)	ND(0.0010)
Bromoform	NA	ND(0.0010)	ND(0.0010)
Chlorobenzene	NA	ND(0.0010)	ND(0.0010)
Chloroform	NA	ND(0.0010)	ND(0.0010)
Chloromethane	NA	ND(0.0010)	ND(0.0010)
Tetrachloroethene	NA	ND(0.0010)	ND(0.0010)
Toluene	NA	0.0019	ND(0.0010)
Trichloroethene	NA	ND(0.0010)	ND(0.0010)
Trichlorofluoromethane	NA	ND(0.0010)	ND(0.0010)
Vinyl Chloride	NA	ND(0.0010)	ND(0.0010) J
Total VOCs	NA	0.0019	ND(0.10)
PCBs-Unfiltered			
Aroclor-1254	NA NA	NA	NA
Aroclor-1260	NA	NA	NA
Total PCBs	NA	NA	NA
PCBs-Filtered			
Aroclor-1254	ND(0.000062) J [ND(0.000062) J]	ND(0.00011)	ND(0.00011)
Aroclor-1260	ND(0.000062) J [ND(0.000062) J]	ND(0.00011)	ND(0.00011)
Total PCBs	ND(0.000062) J [ND(0.000062) J]	ND(0.00011)	ND(0.00011)
Semivolatile Organics			
3,3'-Dichlorobenzidine	NA	ND(0.022) J	ND(0.020)
Acenaphthene	NA	ND(0.011)	ND(0.010)
bis(2-Ethylhexyl)phthalate	NA	ND(0.011)	ND(0.010)
Dibenzofuran	NA	ND(0.011)	ND(0.010)
Dimethylphthalate	NA	ND(0.011)	ND(0.010)
Naphthalene	NA	ND(0.011) J	ND(0.010)
Furans			
2,3,7,8-TCDF	NA	0.0000000012 J	ND(0.000000014)
TCDFs (total)	NA	0.000000012 J	ND(0.000000014)
1,2,3,7,8-PeCDF	NA	ND(0.000000054)	ND(0.000000052)
2,3,4,7,8-PeCDF	NA	ND(0.000000054)	ND(0.000000052)
PeCDFs (total)	NA	ND(0.000000054)	ND(0.000000052)
1,2,3,4,7,8-HxCDF	NA	ND(0.000000054)	ND(0.000000052)
1,2,3,6,7,8-HxCDF	NA	ND(0.000000054)	ND(0.000000052)
1,2,3,7,8,9-HxCDF	NA	ND(0.0000000054)	ND(0.000000052)
2,3,4,6,7,8-HxCDF	NA	ND(0.0000000054)	ND(0.000000052)
HxCDFs (total)	NA NA	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDF	NA NA	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,7,8,9-HpCDF	NA NA	ND(0.000000054)	ND(0.0000000052)
HpCDFs (total)	NA NA	ND(0.0000000054)	ND(0.0000000052)
OCDF	NA	ND(0.00000011)	ND(0.00000011)
Dioxins	NIA.	NIB (0.000000014)	ND(0.000000000)
2,3,7,8-TCDD	NA NA	ND(0.000000014)	ND(0.0000000016)
TCDDs (total)	NA NA	ND(0.000000014)	ND(0.000000016)
1,2,3,7,8-PeCDD	NA NA	ND(0.000000054)	ND(0.0000000052)
PeCDDs (total)	NA NA	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,7,8-HxCDD	NA NA	ND(0.000000054)	ND(0.0000000052)
1,2,3,6,7,8-HxCDD	NA NA	ND(0.000000054)	ND(0.0000000052)
1,2,3,7,8,9-HxCDD	NA NA	ND(0.000000054)	ND(0.0000000052)
HxCDDs (total)	NA NA	ND(0.0000000054)	ND(0.0000000052)
1,2,3,4,6,7,8-HpCDD	NA NA	ND(0.000000054)	ND(0.0000000052)
HpCDDs (total)	NA NA	ND(0.000000054)	ND(0.0000000052)
OCDD	NA NA	ND(0.000000029)	ND(0.000000011)
Total TEQs (WHO TEFs)	NA	0.0000000070	0.000000069

Table B-1 OPCA Monitoring Program

Sample ID:	78-6	78-6	78-6
Parameter Date Collected:	09/28/06	11/07/06	04/19/07
Inorganics-Unfiltered			
Antimony	NA	NA	NA
Arsenic	NA	NA	NA
Barium	NA	NA	NA
Beryllium	NA	NA	NA
Cadmium	NA	NA	NA
Chromium	NA	NA	NA
Cobalt	NA	NA	NA
Copper	NA	NA	NA
Mercury	NA	NA	NA
Nickel	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Sulfide	NA	ND(1.00)	ND(1.00)
Thallium	NA	NA	NA
Tin	NA	NA	NA
Vanadium	NA	NA	NA
Zinc	NA	NA	NA
Inorganics-Filtered			
Antimony	NA	ND(0.0400) J	ND(0.0400)
Arsenic	NA	ND(0.0100) J	0.00526 B
Barium	NA	ND(0.500) J	0.0337 B
Beryllium	NA	0.00135 J	0.00115 J
Cadmium	NA	ND(0.00500)	ND(0.0100) J
Chromium	NA	ND(0.0100)	ND(0.0100) J
Cobalt	NA	ND(0.0100) J	ND(0.0100) J
Copper	NA	ND(0.200)	ND(0.0100) J
Mercury	NA	0.0000429 B	ND(0.000285)
Nickel	NA	ND(0.0500) J	ND(0.0100) J
Selenium	NA	ND(0.0200) J	0.00957 B
Silver	NA	ND(0.0100)	ND(0.0100)
Thallium	NA	0.00611 J	ND(0.0100)
Tin	NA	ND(0.100)	0.0498
Vanadium	NA	ND(0.0500) J	ND(0.0500)
Zinc	NA	0.00393 B	0.00351 B

Table B-1 OPCA Monitoring Program

Volatile Organics ND(0.0010)	Parameter	Sample ID: Date Collected:	78-6 11/13/07	GMA4-6 10/02/06	GMA4-6 11/07/06	GMA4-6 04/19/07
1,1,1-1*Chichrorethane			11/13/07	10/02/00	11/0//00	04/19/07
1,1-Dichloroethane			ND(0.0040)	NA	ND(0.0040)	ND(0.0040)
Nectone 0.0014 J NA ND(0.0050) J ND(0.0050) J Senzene ND(0.0010) NA ND(0.0010 ND(0.0010)						
Senzene	.,	nane				
Stomeform NPI(0.0010) NA NDI(0.0010) NDI(0.0011) NDI(0.0110)					(/	()
Chloroborzene						
Name		_				
Chloromethane		е				
Tetrachioroethene		_				
Toluene					(/	` ,
Trichlorothene		ene			(/	
Trichlorofucromethane						(
Virty Chioride						
Total VOCs		memane				
PCBs-Unfiltered						
Arcotor-1256			0.0014 J	NA NA	0.00032 J	ND(0.10)
Arcotor1260		ea		1		1
Total PCBs						
PCBs-Filtered						
Arcclor-1254 ND(0.00065) ND(0.00010) ND(0.00011) ND(0.00011) Arcclor-1260 ND(0.00065) ND(0.00010) ND(0.00010) ND(0.00011) ND(0.0000) NA			NA	NA	NA NA	NA NA
ND(0.00065) ND(0.00010) ND(0.00011) ND(0.010)		<u> </u>				
Total PCBs						
ND(0.020) ND(0.010) ND(0						
Na			ND(0.000065)	ND(0.00010) J	ND(0.00010)	ND(0.00011)
Accenaphthene						
Dis(2-Ethylhexyl)phthalate ND(0.0050) NA ND(0.010) 0.0016 J Dibenzofuran ND(0.0050) NA ND(0.010) ND(0.010) ND(0.010) Dibenzofuran ND(0.0050) NA ND(0.010) ND(0.010) ND(0.010) Naphthalene 0.0016 J NA ND(0.010) J ND(0.0000 ND(0.010) Furans 2.3,7.8-TCDF ND(0.0000000042) NA 0.000000015 J ND(0.000000018) TCDFs (total) 0.0000000075 J NA 0.0000000015 J ND(0.0000000018) 1,2,3,7.8-PeCDF ND(0.0000000052) NA 0.000000065 J ND(0.0000000053) 2,3,4,7.8-PeCDF ND(0.0000000052) NA 0.000000012 J ND(0.000000053) PeCDFs (total) ND(0.000000052) NA 0.000000012 J ND(0.000000053) 1,2,3,4,7.8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000052) 1,2,3,6,7.8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000052) 1,2,3,6,7,8-HxCDF ND(0.0000000052) NA ND(0.000000052)	-,					
Dibenzofuran ND(0.0050) NA	Acenaphthene		ND(0.0050)		ND(0.010)	ND(0.010)
Dimethylphthalate	bis(2-Ethylhex	yl)phthalate				
Name	Dibenzofuran		ND(0.0050)	NA	ND(0.010)	ND(0.010)
Furans 2,3,7,8-TCDF ND(0.000000042) NA 0.000000015 J ND(0.000000018) 1,2,3,7,8-PeCDF ND(0.000000052) NA 0.000000015 J ND(0.0000000018) 1,2,3,7,8-PeCDF ND(0.000000052) NA 0.000000005 J ND(0.0000000053) 2,3,4,7,8-PeCDF ND(0.000000052) NA 0.000000005 J ND(0.0000000053) PeCDFs (total) ND(0.000000052) NA 0.000000012 J ND(0.000000053) 1,2,3,4,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDF ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDF ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDF ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDP ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,7,8,9-HyCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,8,9-HyCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,8,9-HyCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HyCDD ND(0.0000000052) NA ND(0.		late				
2,3,7,8-TCDF	Naphthalene		0.0016 J	NA	ND(0.010) J	ND(0.010)
TCDFs (total)	Furans					
1,2,3,7,8-PeCDF ND(0.000000052) NA	2,3,7,8-TCDF		ND(0.0000000042)	NA	0.000000015 J	ND(0.000000018)
2,3,4,7,8-PeCDF ND(0.000000052)	TCDFs (total)		0.0000000076 J	NA	0.000000015 J	ND(0.000000018)
PecDFs (total) ND(0.000000052) NA	1,2,3,7,8-PeCI	DF	ND(0.000000052)	NA	0.000000065 J	ND(0.000000053)
1,2,3,4,7,8-HxCDF	2,3,4,7,8-PeCI	DF	ND(0.000000052)	NA	0.000000052 J	ND(0.000000053)
1,2,3,6,7,8-HxCDF ND(0.000000052) NA	PeCDFs (total))	ND(0.000000052)	NA	0.00000012 J	ND(0.000000053)
1,2,3,7,8,9-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 2,3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.0000000052) ND(0.000000053) 3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 4,2,3,4,7,8,9-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 5,2,3,7,8-TCDD ND(0.000000037) NA ND(0.000000014) ND(0.000000011) 5,2,3,7,8-TCDD ND(0.000000037) NA ND(0.000000014) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.000000037) NA ND(0.000000013) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.000000052) NA ND(0.000000053) 1,2,3,7,8-HxCDD ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HyCDD ND(0.00	1,2,3,4,7,8-Hx	CDF	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
1,2,3,7,8,9-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 2,3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.0000000052) ND(0.000000053) 3,4,6,7,8-HxCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 3,2,3,4,6,7,8-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 4,2,3,4,7,8,9-HyCDF ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 5,2,3,7,8-TCDD ND(0.000000037) NA ND(0.000000014) ND(0.000000011) 5,2,3,7,8-TCDD ND(0.000000037) NA ND(0.000000014) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.000000037) NA ND(0.000000013) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.000000052) NA ND(0.000000053) 1,2,3,7,8-HxCDD ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HyCDD ND(0.00	1,2,3,6,7,8-Hx	CDF	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
ND(0.000000052) ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HpCDF ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8,9-HpCDF ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-TCDD ND(0.000000011) ND(0.000000010) ND(0.000000011) 1,2,3,7,8-TCDD ND(0.000000037) NA	1,2,3,7,8,9-Hx	CDF	ND(0.0000000052)	NA	ND(0.000000052)	ND(0.000000053)
1,2,3,4,6,7,8-HpCDF	2,3,4,6,7,8-Hx	CDF	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
ND(0.000000052) ND(0.000000053) ND(0.0000000053) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.00000000011) ND(0.00000000000000000000000000000000000	HxCDFs (total))	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
ND(0.000000052) ND(0.000000053) ND(0.000000052) ND(0.0000000053) ND(0.0000000053) ND(0.0000000053) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.0000000011) ND(0.00000000011) ND(0.00000000011) ND(0.00000000012) ND(0.00000000000000000000000000000000000			ND(0.0000000052)	NA	ND(0.000000052)	ND(0.000000053)
DOCDF ND(0.000000011) NA ND(0.000000010) ND(0.000000011) Dioxins 2,3,7,8-TCDD ND(0.0000000037) NA ND(0.0000000014) X ND(0.00000000022) TCDDs (total) ND(0.0000000037) NA ND(0.0000000013) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) PeCDDs (total) ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053)	1,2,3,4,7,8,9-H	lpCDF	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
Dioxins Value (0.00000000037) NA ND(0.0000000014) X ND(0.00000000022) TCDDs (total) ND(0.0000000037) NA ND(0.0000000013) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) PeCDDs (total) ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) OCDD ND(0.000000011) NA ND(0.000000010) 0.000000004 J	HpCDFs (total))	ND(0.000000052)	NA	ND(0.000000052)	ND(0.000000053)
2,3,7,8-TCDD ND(0.0000000037) NA ND(0.0000000014) X ND(0.00000000022) TCDDs (total) ND(0.0000000037) NA ND(0.0000000013) ND(0.0000000022) 1,2,3,7,8-PeCDD ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) PeCDDs (total) ND(0.0000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,4,7,8-HxCDD ND(0.000000052) NA ND(0.000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) OCDD ND(0.0000000011) NA ND(0.000000010) 0.0000000040 J	OCDF		ND(0.00000011)	NA	ND(0.00000010)	ND(0.00000011)
ND(0.0000000037) NA	Dioxins					
ND(0.0000000037) NA	2,3,7,8-TCDD		ND(0.000000037)	NA	ND(0.000000014) X	ND(0.0000000022)
1,2,3,7,8-PeCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) PeCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) 1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) OCDD ND(0.0000000011) NA ND(0.000000010) 0.0000000040 J	TCDDs (total)				, ,	
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1,2,3,4,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) 0.0000000060 J OCDD ND(0.0000000011) NA ND(0.000000010) 0.000000040 J			,		` '	` ,
1,2,3,6,7,8-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) 0.0000000060 J OCDD ND(0.0000000011) NA ND(0.000000010) 0.000000040 J	,	,	ND(0.000000052)		ND(0.000000052)	ND(0.000000053)
1,2,3,7,8,9-HxCDD ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) 0.0000000060 DCDD ND(0.0000000011) NA ND(0.000000010) 0.000000040			, ,		` '	, ,
HxCDDs (total) ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) 1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.0000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) 0.0000000060 J OCDD ND(0.0000000011) NA ND(0.000000010) 0.000000040 J			,		ND(0.000000052)	,
1,2,3,4,6,7,8-HpCDD ND(0.0000000052) NA ND(0.000000052) ND(0.0000000053) HpCDDs (total) ND(0.0000000052) NA ND(0.0000000052) 0.0000000060 J OCDD ND(0.0000000011) NA ND(0.000000010) 0.000000040 J			,			` ,
HpCDDs (total) ND(0.000000052) NA ND(0.000000052) 0.000000060 J OCDD ND(0.000000011) NA ND(0.000000010) 0.000000040 J	,	,	,		` ,	` ,
OCDD ND(0.000000011) NA ND(0.000000010) 0.000000040 J					, , ,	, ,
	OCDD	,			, ,	
		/HO TEFs)				

Table B-1 OPCA Monitoring Program

	Sample ID:	78-6	GMA4-6	GMA4-6	GMA4-6
Parameter	Date Collected:	11/13/07	10/02/06	11/07/06	04/19/07
Inorganics-U	Infiltered				
Antimony		NA	NA	NA	NA
Arsenic		NA	NA	NA	NA
Barium		NA	NA	NA	NA
Beryllium		NA	NA	NA	NA
Cadmium		NA	NA	NA	NA
Chromium		NA	NA	NA	NA
Cobalt		NA	NA	NA	NA
Copper		NA	NA	NA	NA
Mercury		NA	NA	NA	NA
Nickel		NA	NA	NA	NA
Selenium		NA	NA	NA	NA
Silver		NA	NA	NA	NA
Sulfide		ND(1.00) J	NA	ND(1.00)	1.10
Thallium		NA	NA	NA	NA
Tin		NA	NA	NA	NA
Vanadium		NA	NA	NA	NA
Zinc		NA	NA	NA	NA
Inorganics-F	iltered				
Antimony		ND(0.0400)	NA	ND(0.0400) J	0.00696 B
Arsenic		0.00588 J	NA	ND(0.0100) J	ND(0.0100)
Barium		0.0667 B	NA	ND(0.500) J	0.0410 B
Beryllium		0.000850 J	NA	ND(0.0100) J	0.00578 J
Cadmium		ND(0.00500)	NA	ND(0.00500)	ND(0.0100) J
Chromium		ND(0.0100)	NA	ND(0.0100)	ND(0.0100) J
Cobalt		ND(0.0100)	NA	ND(0.0100) J	ND(0.0100) J
Copper		ND(0.0100) J	NA	ND(0.200)	ND(0.0100) J
Mercury		ND(0.000285)	NA	0.0000382 B	ND(0.000285)
Nickel		ND(0.0100)	NA	ND(0.0500) J	ND(0.0100) J
Selenium		ND(0.0200) J	NA	ND(0.0200) J	0.0110 B
Silver		ND(0.0100)	NA	ND(0.0100)	ND(0.0100)
Thallium		ND(0.0100) J	NA	ND(0.0100) J	ND(0.0100)
Tin		ND(0.0100) J	NA	ND(0.100)	ND(0.0100) J
Vanadium		ND(0.0500)	NA	ND(0.0500) J	ND(0.0500)
Zinc		ND(0.0200)	NA	0.0253 B	0.119

Table B-1 OPCA Monitoring Program

	Sample ID:	GMA4-6	H78B-15	H78B-15	H78B-15		
Parameter	Date Collected:	10/08/07	06/16/99	05/03/01	11/09/06		
Volatile Organics							
1,1,1-Trichloroe		ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
1,1-Dichloroeth	nane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Acetone		ND(0.0050) J	ND(0.10)	ND(0.010)	ND(0.0050) J		
Benzene		ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Bromoform		ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Chlorobenzene)	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Chloroform		ND(0.0010)	ND(0.0050)	ND(0.0050)	0.0049		
Chloromethane		ND(0.0010)	ND(0.010)	ND(0.0050)	0.00061 J		
Tetrachloroethe	ene	ND(0.0010)	ND(0.0050)	ND(0.0020)	ND(0.0010)		
Toluene		ND(0.0010)	ND(0.0050)	ND(0.0050)	0.00068 J		
Trichloroethene		ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Trichlorofluoror	methane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)		
Vinyl Chloride		ND(0.0010)	ND(0.010)	ND(0.0020)	ND(0.0010)		
Total VOCs	_	ND(0.10)	ND(0.20)	ND(0.20)	0.0062 J		
PCBs-Unfilter	ed						
Aroclor-1254		NA NA	0.000035 J	ND(0.000065)	NA		
Aroclor-1260		NA	ND(0.000050)	ND(0.000065)	NA		
Total PCBs		NA	0.000035 J	ND(0.000065)	NA		
PCBs-Filtered							
Aroclor-1254		ND(0.00010)	NA	ND(0.000065)	ND(0.00011) J		
Aroclor-1260		ND(0.00010)	NA	ND(0.000065)	ND(0.00011) J		
Total PCBs		ND(0.00010)	NA	ND(0.000065)	ND(0.00011) J		
Semivolatile C							
3,3'-Dichlorobe	nzidine	ND(0.020)	ND(0.050)	ND(0.020)	ND(0.020) J		
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)		
bis(2-Ethylhexy	/l)phthalate	ND(0.010)	ND(0.010)	ND(0.0060)	ND(0.010)		
Dibenzofuran		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)		
Dimethylphthal	ate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)		
Naphthalene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) J		
Furans							
2,3,7,8-TCDF		ND(0.0000000026)	ND(0.000000015)	ND(0.0000000040)	ND(0.000000011)		
TCDFs (total)		0.000000023 J	ND(0.000000015)	ND(0.000000012)	ND(0.000000011)		
1,2,3,7,8-PeCD		ND(0.000000050)	ND(0.000000036)	ND(0.0000000038)	ND(0.0000000055)		
2,3,4,7,8-PeCD		ND(0.000000050)	ND(0.000000034)	ND(0.0000000055) XB	ND(0.0000000055)		
PeCDFs (total)		0.0000000076 J	ND(0.000000036)	ND(0.000000013)	ND(0.0000000055)		
1,2,3,4,7,8-Hx0		ND(0.000000050)	ND(0.000000017)	ND(0.000000015) XB	ND(0.0000000055)		
1,2,3,6,7,8-HxC		ND(0.000000050)	ND(0.000000017)	ND(0.0000000040)	ND(0.0000000055)		
1,2,3,7,8,9-Hx(ND(0.0000000050)	ND(0.0000000023)	ND(0.0000000050)	ND(0.0000000055)		
2,3,4,6,7,8-Hx(ND(0.0000000050)	ND(0.0000000018)	ND(0.0000000040)	ND(0.0000000055)		
HxCDFs (total)		ND(0.0000000050)	ND(0.0000000023)	ND(0.00000000058)	ND(0.0000000055)		
1,2,3,4,6,7,8-H		ND(0.0000000050)	ND(0.000000032)	ND(0.00000000000)	ND(0.0000000055)		
1,2,3,4,7,8,9-H		ND(0.0000000050)	ND(0.000000015)	ND(0.00000000086) XB	ND(0.0000000055)		
HpCDFs (total)		ND(0.0000000050)	ND(0.000000032)	ND(0.00000000086) X	ND(0.0000000055)		
OCDF		ND(0.00000010)	ND(0.0000000076)	ND(0.0000000026)	ND(0.00000011)		
Dioxins		ND(0.000000000)	ND (0.000000005)	ND(0.00000017) \/D	ND(0.00000000)		
2,3,7,8-TCDD		ND(0.0000000034)	ND(0.0000000035)	ND(0.000000017) XB	ND(0.0000000012)		
TCDDs (total)	ND.	ND(0.000000034)	ND(0.0000000035)	ND(0.0000000031) X	ND(0.0000000012)		
1,2,3,7,8-PeCE		ND(0.0000000050)	ND(0.0000000071)	ND(0.00000000060) ND(0.0000000018) X	ND(0.0000000055)		
PeCDDs (total)		ND(0.000000050)	ND(0.0000000071)	(ND(0.0000000055)		
1,2,3,4,7,8-Hx(ND(0.0000000050)	ND(0.0000000056)	ND(0.0000000080)	ND(0.0000000055)		
1,2,3,6,7,8-Hx(ND(0.0000000050)	ND(0.0000000070)	ND(0.0000000012)	ND(0.0000000055)		
1,2,3,7,8,9-Hx(ND(0.000000050) ND(0.000000050)	ND(0.0000000062)	ND(0.00000000095) XB	ND(0.0000000055) ND(0.0000000055)		
HxCDDs (total)		(ND(0.0000000070)	0.000000032	(
1,2,3,4,6,7,8-H		ND(0.0000000050)	ND(0.000000011)	0.0000000052 JB	ND(0.0000000055)		
HpCDDs (total))	ND(0.000000050)	ND(0.000000011)	ND(0.0000000052)	ND(0.0000000055)		
OCDD	HO TEEs)	ND(0.000000010)	ND(0.0000000000)	ND(0.0000000077)	ND(0.000000011)		
Total TEQs (W	TO LEES)	0.000000075	0.000000079	0.000000017	0.000000070		

Table B-1 OPCA Monitoring Program

Sample ID:	GMA4-6	H78B-15	H78B-15	H78B-15
Parameter Date Collected:	10/08/07	06/16/99	05/03/01	11/09/06
Inorganics-Unfiltered				
Antimony	NA	ND(0.0600)	0.00290 J	NA
Arsenic	NA	ND(0.00600)	ND(0.0100)	NA
Barium	NA	0.0570	0.00430 B	NA
Beryllium	NA	ND(0.00600)	ND(0.00100)	NA
Cadmium	NA	ND(0.00600) J	ND(0.00500)	NA
Chromium	NA	ND(0.0130)	0.00290 B	NA
Cobalt	NA	ND(0.0600)	ND(0.0500)	NA
Copper	NA	ND(0.0330)	0.00910 B	NA
Mercury	NA	ND(0.000500)	ND(0.000200)	NA
Nickel	NA	ND(0.0600)	ND(0.0400)	NA
Selenium	NA	ND(0.00600)	ND(0.00500)	NA
Silver	NA	ND(0.0130)	ND(0.00500)	NA
Sulfide	ND(1.00) J	ND(5.00)	ND(5.00)	ND(1.00)
Thallium	NA	ND(0.0130)	ND(0.0100) J	NA
Tin	NA	ND(0.300) j	ND(0.0300)	NA
Vanadium	NA	ND(0.0600)	ND(0.0500)	NA
Zinc	NA	0.0830	0.0110 J	NA
Inorganics-Filtered				
Antimony	ND(0.0400)	NA	ND(0.0100) J	ND(0.0400)
Arsenic	ND(0.0100) J	NA	ND(0.0100)	ND(0.0100) J
Barium	0.00701 B	NA	0.00460 B	ND(0.500) J
Beryllium	ND(0.0100) J	NA	ND(0.00100)	0.000590 J
Cadmium	ND(0.00500) J	NA	ND(0.00500)	ND(0.00500) J
Chromium	ND(0.0100)	NA	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0100)	NA	ND(0.0500)	ND(0.0100) J
Copper	ND(0.0100)	NA	0.00610 B	ND(0.200) J
Mercury	ND(0.000285)	NA	ND(0.000200)	ND(0.000285)
Nickel	0.00564 B	NA	ND(0.0400)	ND(0.0500) J
Selenium	ND(0.0200) J	NA	ND(0.00500)	ND(0.0200) J
Silver	ND(0.0100) J	NA	ND(0.00500)	ND(0.0100)
Thallium	0.00652 B	NA	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.0100)	NA	ND(0.0300)	ND(0.100)
Vanadium	ND(0.0500)	NA	ND(0.0500)	ND(0.0500) J
Zinc	0.0123 B	NA	0.0180 J	0.00461 B

Table B-1 OPCA Monitoring Program

	Sample ID:	H78B-15	H78B-15	NY-4
Parameter	Date Collected:	04/18/07	10/10/07	06/14/99
Volatile Orga				
1,1,1-Trichlord		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
1,1-Dichloroethane		ND(0.0010) [ND(0.0010)]	0.00010 J	ND(0.0050)
Acetone		ND(0.0050) [ND(0.0050)]	0.0031 J	ND(0.10)
Benzene		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Bromoform		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Chlorobenzen	е	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Chloroform		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Chloromethan		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.010)
Tetrachloroeth	nene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Toluene		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Trichloroether		ND(0.0010) [ND(0.0010)]	0.00023 J	ND(0.0050)
Trichlorofluoro		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0050)
Vinyl Chloride		ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.010)
Total VOCs		ND(0.10) [ND(0.10)]	0.0034 J	ND(0.20)
PCBs-Unfilte	red		T	
Aroclor-1254		NA NA	NA NA	0.00012
Aroclor-1260		NA	NA NA	ND(0.00010)
Total PCBs	_	NA	NA	0.00012
PCBs-Filtered	d			
Aroclor-1254		ND(0.00010) [ND(0.00011)]	ND(0.000065)	NA
Aroclor-1260		ND(0.00010) [ND(0.00011)]	ND(0.000065)	NA
Total PCBs		ND(0.00010) [ND(0.00011)]	ND(0.000065)	NA
Semivolatile				
3,3'-Dichlorob		ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.052)
Acenaphthene		ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
bis(2-Ethylhex	yl)phthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dibenzofuran		ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dimethylphtha	alate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Furans	,			
2,3,7,8-TCDF		ND(0.0000000013) [ND(0.0000000016)]	ND(0.000000017)	ND(0.0000000020)
TCDFs (total)		ND(0.0000000013) [ND(0.0000000016)]	ND(0.000000017)	ND(0.0000000020)
1,2,3,7,8-PeC		ND(0.0000000051) [ND(0.0000000052)]	ND(0.000000052)	ND(0.0000000074)
2,3,4,7,8-PeC		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.0000000069)
PeCDFs (total		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.0000000074)
1,2,3,4,7,8-Hx		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000021)
1,2,3,6,7,8-Hx		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000022)
1,2,3,7,8,9-Hx		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000021)
2,3,4,6,7,8-Hx		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000023)
HxCDFs (total		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000023)
1,2,3,4,6,7,8-1		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052) ND(0.0000000052)	ND(0.000000054)
1,2,3,4,7,8,9-		ND(0.0000000051) [ND(0.0000000052)]	(ND(0.00000054)
HpCDFs (total OCDF	1)	ND(0.0000000051) [ND(0.0000000052)] ND(0.000000010) [ND(0.000000010)]	ND(0.000000052) ND(0.00000011)	ND(0.000000054) ND(0.000000067)
		ND(0.000000010) [ND(0.000000010)]	ND(0.00000011)	ND(0.000000087)
Dioxins		ND(0.00000004E) [ND(0.000000040)]	ND(0.0000000000)	ND(0.0000000000)
2,3,7,8-TCDD		ND(0.0000000015) [ND(0.0000000019)]	ND(0.0000000020)	ND(0.0000000030)
TCDDs (total)	DD	ND(0.0000000015) [ND(0.0000000019)]	ND(0.0000000020)	ND(0.000000030)
1,2,3,7,8-PeC		ND(0.0000000051) [ND(0.0000000052)] ND(0.0000000051) [ND(0.0000000052)]	ND(0.000000052) ND(0.000000052)	ND(0.00000031)
PeCDDs (tota 1,2,3,4,7,8-Hx	<i>'</i>	ND(0.0000000051) [ND(0.000000052)]	ND(0.0000000052)	ND(0.000000031) ND(0.000000032)
1,2,3,4,7,8-Hx 1,2,3,6,7,8-Hx		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.00000032)
			,	,
1,2,3,7,8,9-Hx		ND(0.0000000051) [ND(0.0000000052)] ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052) ND(0.0000000052)	ND(0.00000036) ND(0.00000040)
HxCDDs (tota	,		,	
1,2,3,4,6,7,8-h		ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	ND(0.000000082) ND(0.000000082)
HpCDDs (tota	1)	ND(0.0000000051) [ND(0.0000000052)]	ND(0.0000000052)	(
OCDD	VHO TEEs)	ND(0.000000010) [ND(0.000000010)]	ND(0.000000011)	ND(0.000000084)
Total TEQs (V	VIIO IEFS)	0.0000000066 [0.0000000069]	0.000000070	0.00000029

Table B-1 OPCA Monitoring Program

	Sample ID:	H78B-15	H78B-15	NY-4
Parameter	Date Collected:	04/18/07	10/10/07	06/14/99
Inorganics-U	Infiltered			
Antimony		NA	NA	ND(0.0600)
Arsenic		NA	NA	ND(0.00600)
Barium		NA	NA	0.0200
Beryllium		NA	NA	ND(0.00600)
Cadmium		NA	NA	ND(0.00600)
Chromium		NA	NA	ND(0.0130)
Cobalt		NA	NA	ND(0.0600)
Copper		NA	NA	ND(0.0330)
Mercury		NA	NA	ND(0.000500)
Nickel		NA	NA	ND(0.0600)
Selenium		NA	NA	ND(0.00600) J
Silver		NA	NA	ND(0.0130)
Sulfide		ND(1.00) [ND(1.00)]	ND(1.00) J	ND(5.00)
Thallium		NA	NA	ND(0.0130)
Tin		NA	NA	ND(0.300)
Vanadium		NA	NA	ND(0.0600)
Zinc		NA	NA	ND(0.0260)
Inorganics-F	iltered			
Antimony		ND(0.0400) [ND(0.0400)]	ND(0.0400)	NA
Arsenic		ND(0.0100) J [ND(0.0100) J]	0.00346 B	NA
Barium		0.00872 B [0.00850 B]	0.0546 B	NA
Beryllium		0.00529 B [ND(0.0100)]	ND(0.0100)	NA
Cadmium		ND(0.0100) [ND(0.0100)]	ND(0.00500) J	NA
Chromium		ND(0.0100) [ND(0.0100)]	ND(0.0100) J	NA
Cobalt		ND(0.0100) [ND(0.0100)]	ND(0.0100)	NA
Copper		ND(0.0100) J [ND(0.0100) J]	ND(0.0100)	NA
Mercury		ND(0.000285) [ND(0.000285)]	ND(0.000285)	NA
Nickel		ND(0.0100) [0.00519 B]	ND(0.0100)	NA
Selenium		ND(0.0200) [ND(0.0200)]	ND(0.0200)	NA
Silver		ND(0.0100) [ND(0.0100)]	ND(0.0100)	NA
Thallium		ND(0.0100) J [ND(0.0100)]	ND(0.0100) J	NA
Tin		ND(0.0100) J [0.00892 J]	ND(0.0100)	NA
Vanadium		ND(0.0500) [ND(0.0500)]	ND(0.0500)	NA
Zinc		0.00361 B [ND(0.0200)]	0.194	NA

Table B-1 OPCA Monitoring Program

B	Sample ID:	NY-4	OPCA-MW-1	OPCA-MW-1	OPCA-MW-1R
Parameter	Date Collected:	04/30/01	06/16/99	05/02/01	11/08/06
Volatile Organ		ND(0.00E0)	ND(0.0050)	ND(0.0050)	ND(0.0040)
1,1-Dichloroeth		ND(0.0050) ND(0.0050)	ND(0.0050) ND(0.0050)	ND(0.0050) ND(0.0050)	ND(0.0010) ND(0.0010)
Acetone	lane	ND(0.0050) ND(0.010)	ND(0.0050)	ND(0.0050) ND(0.010)	ND(0.0010) ND(0.0050) J
Benzene		ND(0.010)	ND(0.10) ND(0.0050)	ND(0.010) ND(0.0050)	ND(0.0030) 3 ND(0.0010)
Bromoform		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chlorobenzene		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chloroform	,	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chloromethane	١	ND(0.0050)	ND(0.0000)	ND(0.0050)	ND(0.0010)
Tetrachloroethe		ND(0.0020)	ND(0.0050)	ND(0.0020)	0.018
Toluene	5110	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichloroethene	3	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichlorofluoror		ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride		ND(0.0020)	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs		ND(0.20)	ND(0.20)	ND(0.20)	0.018
PCBs-Unfiltere	ed	(3.20)	(0)	()	
Aroclor-1254		0.00023	0.000054	ND(0.000065)	NA
Aroclor-1260		0.000080	ND(0.000050)	ND(0.000065)	NA NA
Total PCBs		0.00031	0.000054	ND(0.000065)	NA NA
PCBs-Filtered				(- 2000)	
Aroclor-1254		0.00011	NA	ND(0.000065)	ND(0.00010)
Aroclor-1260		ND(0.000065)	NA NA	ND(0.00065)	ND(0.00010)
Total PCBs		0.00011	NA NA	ND(0.000065)	ND(0.00010)
Semivolatile C	rganics			(0.00000)	(0.000.0)
3,3'-Dichlorobe		ND(0.020)	ND(0.059)	ND(0.050)	ND(0.020) J
Acenaphthene	TIZIGITIO	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
bis(2-Ethylhexy	rl)phthalate	ND(0.0060)	ND(0.012)	ND(0.010)	ND(0.010)
Dibenzofuran	7,	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Dimethylphthala	ate	ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010)	ND(0.012)	ND(0.010)	ND(0.010) J
Furans		,			
2,3,7,8-TCDF		ND(0.000000011)	ND(0.000000011)	ND(0.000000013)	ND(0.000000010)
TCDFs (total)		ND(0.000000018) X	0.0000000090 J	ND(0.000000013)	ND(0.0000000010)
1,2,3,7,8-PeCD)F	ND(0.00000012)	ND(0.0000000025)	ND0.000000037)	ND(0.000000050)
2,3,4,7,8-PeCD)F	0.000000034 J	ND(0.0000000024)	ND(0.000000015)	ND(0.000000050)
PeCDFs (total)		0.00000044	ND(0.0000000025)	ND(0.000000037)	ND(0.000000050)
1,2,3,4,7,8-HxC	DF	ND(0.00000013)	ND(0.000000011)	ND(0.0000000025)	ND(0.000000050)
1,2,3,6,7,8-HxC		ND(0.000000032)	ND(0.000000011)	ND(0.000000015)	ND(0.000000050)
1,2,3,7,8,9-HxC		ND(0.000000010)	ND(0.000000016)	ND(0.0000000021)	ND(0.000000050)
2,3,4,6,7,8-HxC	DF	ND(0.000000017)	ND(0.000000012)	ND(0.00000000090)	ND(0.000000050)
HxCDFs (total)		ND(0.000000027)	ND(0.000000016)	ND(0.000000046)	ND(0.0000000050)
1,2,3,4,6,7,8-H		ND(0.000000066)	ND(0.0000000073)	ND(0.0000000025)	ND(0.0000000050)
1,2,3,4,7,8,9-H	pCDF	0.0000000034 JB	ND(0.0000000090)	ND(0.0000000015)	ND(0.000000050)
HpCDFs (total)		ND(0.00000014)	0.0000000078 J	ND(0.0000000025)	ND(0.000000050)
OCDF		0.000000023 J	ND(0.000000037)	ND(0.000000046)	ND(0.000000010)
Dioxins					
2,3,7,8-TCDD		0.00000017	ND(0.000000012)	ND(0.000000018)	ND(0.000000011)
TCDDs (total)	_	0.00000017	ND(0.000000012)	ND(0.000000018)	ND(0.000000011)
1,2,3,7,8-PeCD	D	ND(0.000000018)	ND(0.0000000046)	ND(0.0000000015)	ND(0.0000000050)
PeCDDs (total)		ND(0.0000000093)	ND(0.0000000046)	ND(0.0000000015)	ND(0.0000000050)
1,2,3,4,7,8-HxC		ND(0.000000016)	ND(0.0000000034)	ND(0.0000000012)	ND(0.0000000050)
1,2,3,6,7,8-HxC		ND(0.000000017)	ND(0.0000000042)	ND(0.0000000013)	ND(0.0000000050)
1,2,3,7,8,9-HxC		ND(0.000000012)	ND(0.0000000038)	ND(0.0000000012)	ND(0.0000000050)
HxCDDs (total)		ND(0.000000062)	ND(0.0000000042)	ND(0.0000000025)	ND(0.0000000050)
1,2,3,4,6,7,8-H		0.000000084 B	ND(0.0000000070)	ND(0.0000000045)	ND(0.0000000050)
HpCDDs (total)		0.00000012	ND(0.0000000070)	ND(0.0000000045)	ND(0.0000000050)
OCDD (M)	110 TEE '	ND(0.000000048)	ND(0.0000000044)	ND(0.000000029)	0.000000013 J
Total TEQs (W	HU IEFs)	0.000000023	0.000000046	0.000000028	0.000000063

Table B-1 OPCA Monitoring Program

Parameter	Sample ID: Date Collected:	NY-4 04/30/01	OPCA-MW-1 06/16/99	OPCA-MW-1 05/02/01	OPCA-MW-1R 11/08/06
Inorganics-Un		04/30/01	00/10/99	03/02/01	11/00/00
Antimony	Intered	ND(0.0600)	ND(0.0600)	ND(0.0600)	NA
Arsenic		0.00450 B	ND(0.00600)	0.00450 B	NA NA
Barium		0.0300 B	0.0620	0.0240 B	NA
Beryllium		ND(0.00100)	ND(0.00600)	ND(0.00100)	NA
Cadmium		ND(0.00500)	ND(0.00600) J	ND(0.00500)	NA
Chromium		0.00460 B	ND(0.0130)	ND(0.025) J	NA
Cobalt		ND(0.0500)	ND(0.0600)	0.000350 B	NA
Copper		0.0100 B	ND(0.0330)	ND(0.0250)	NA
Mercury		ND(0.000200)	ND(0.000500)	ND(0.000200)	NA
Nickel		ND(0.0400)	ND(0.0600)	ND(0.0400)	NA
Selenium		0.0080 J	ND(0.00600)	ND(0.00500)	NA
Silver		ND(0.00500)	ND(0.0130)	ND(0.00500)	NA
Sulfide		ND(5.00)	ND(5.00)	ND(5.00)	ND(1.00)
Thallium		ND(0.0100)	ND(0.0130)	ND(0.010) J	NA
Tin		ND(0.0300)	ND(0.300) j	ND(0.0300)	NA
Vanadium		ND(0.0500)	ND(0.0600)	ND(0.0500)	NA
Zinc		0.0350	ND(0.0260)	0.028 J	NA
Inorganics-Filt	ered				
Antimony		ND(0.0600)	NA	ND(0.0600)	ND(0.0400)
Arsenic		ND(0.0100)	NA	ND(0.0100)	ND(0.0100) J
Barium		0.0170 B	NA	0.0230 B	ND(0.500) J
Beryllium		ND(0.00100)	NA	ND(0.00100)	ND(0.0100) J
Cadmium		ND(0.00500)	NA	ND(0.00500)	ND(0.00500) J
Chromium		ND(0.0100)	NA	ND(0.025) J	ND(0.0100)
Cobalt		ND(0.0500)	NA	ND(0.0500)	ND(0.0100) J
Copper		0.00410 B	NA	0.00420 B	ND(0.200) J
Mercury		ND(0.000200)	NA	ND(0.000200)	ND(0.000285)
Nickel		ND(0.0400)	NA	ND(0.0400)	ND(0.0500) J
Selenium		0.0075 J	NA	ND(0.00500)	ND(0.0200) J
Silver		ND(0.00500)	NA	ND(0.00500)	ND(0.0100)
Thallium		ND(0.0100)	NA	ND(0.010) J	0.00752 J
Tin		ND(0.0300)	NA	ND(0.0300)	ND(0.100)
Vanadium		ND(0.0500)	NA	ND(0.0500)	ND(0.0500) J
Zinc		0.0180 B	NA	0.028 J	0.00409 B

Table B-1 OPCA Monitoring Program

Sample ID		OPCA-MW-1R	OPCA-MW-2
Parameter Date Collected	l: 04/19/07	10/05/07	06/15/99
Volatile Organics		1	
1,1,1-Trichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
1,1-Dichloroethane	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Acetone	ND(0.0050) J	ND(0.0050) J	ND(0.10) [ND(0.10)]
Benzene	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Bromoform	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Chlorobenzene	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Chloroform	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Chloromethane Tetrachloroethene	ND(0.0010) 0.012	ND(0.0010)	ND(0.010) [ND(0.010)] ND(0.0050) [ND(0.0050)]
Toluene	ND(0.0010)	0.015 ND(0.0010)	ND(0.0050) [ND(0.0050)] ND(0.0050) [ND(0.0050)]
Trichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Trichlorofluoromethane	ND(0.0010)	ND(0.0010)	ND(0.0050) [ND(0.0050)]
Vinyl Chloride	ND(0.0010) ND(0.0010) J	ND(0.0010)	ND(0.0030) [ND(0.0030)] ND(0.010) [ND(0.010)]
Total VOCs	0.012	0.015	ND(0.010) [ND(0.010)] ND(0.20) [ND(0.20)]
	0.012	0.015	ND(0.20) [ND(0.20)]
PCBs-Unfiltered	P1 0	N. A	ND(0.000000) (ND(0.000000))
Aroclor-1254	NA NA	NA NA	ND(0.000050) [ND(0.000050)]
Aroclor-1260	NA NA	NA NA	ND(0.000050) [ND(0.000050)]
Total PCBs	NA	NA	ND(0.000050) [ND(0.000050)]
PCBs-Filtered			
Aroclor-1254	ND(0.00011)	ND(0.00010)	NA NA
Aroclor-1260	ND(0.00011)	ND(0.00010)	NA
Total PCBs	ND(0.00011)	ND(0.00010)	NA
Semivolatile Organics			
3,3'-Dichlorobenzidine	ND(0.020)	ND(0.020)	ND(0.050) [ND(0.050)]
Acenaphthene	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
bis(2-Ethylhexyl)phthalate	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Dibenzofuran	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Dimethylphthalate	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Naphthalene	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Furans			
2,3,7,8-TCDF	0.0000000045 J	0.0000000025 J	ND(0.00000000080) [ND(0.00000000060)]
TCDFs (total)	0.0000000067 J	0.0000035 J	ND(0.00000000080) [ND(0.00000000060)]
1,2,3,7,8-PeCDF	ND(0.000000051)	ND(0.000000050)	ND(0.0000000038) [ND(0.0000000021)]
2,3,4,7,8-PeCDF	ND(0.000000051)	ND(0.000000050)	ND(0.0000000040) [ND(0.0000000023)]
PeCDFs (total)	ND(0.0000000051)	0.00000031 J	ND(0.0000000040) [ND(0.0000000023)]
1,2,3,4,7,8-HxCDF	ND(0.0000000051)	ND(0.000000050)	ND(0.000000011) [ND(0.0000000051)]
1,2,3,6,7,8-HxCDF	ND(0.0000000051)	ND(0.000000050)	ND(0.000000011) [ND(0.0000000052)]
1,2,3,7,8,9-HxCDF	ND(0.000000051)	ND(0.000000050)	ND(0.000000017) [ND(0.0000000049)]
2,3,4,6,7,8-HxCDF	ND(0.000000051)	ND(0.000000050)	ND(0.000000011) [ND(0.0000000054)]
HxCDFs (total)	ND(0.0000000051)	0.0000014	ND(0.000000017) [ND(0.0000000054)]
1,2,3,4,6,7,8-HpCDF	ND(0.000000051)	ND(0.000000050)	ND(0.000000048) [ND(0.000000011)]
1,2,3,4,7,8,9-HpCDF	ND(0.000000051)	ND(0.000000050)	ND(0.000000031) [ND(0.000000013)]
HpCDFs (total)	ND(0.000000051)	ND(0.000000050)	ND(0.000000048) [0.000000013 J]
OCDF	0.00000012 J	ND(0.000000010)	ND(0.000000022) [ND(0.000000010)]
Dioxins			
2,3,7,8-TCDD	ND(0.000000018)	ND(0.000000013)	ND(0.0000000015) [ND(0.0000000011)]
TCDDs (total)	ND(0.000000018)	ND(0.000000013)	ND(0.0000000015) [ND(0.0000000011)]
1,2,3,7,8-PeCDD	ND(0.000000051)	ND(0.000000050)	ND(0.000000015) [ND(0.000000076)]
PeCDDs (total)	ND(0.000000051)	ND(0.000000050)	ND(0.000000015) [ND(0.0000000076)]
1,2,3,4,7,8-HxCDD	ND(0.000000051)	ND(0.000000050)	ND(0.000000014) [ND(0.0000000068)]
1,2,3,6,7,8-HxCDD	ND(0.000000051)	ND(0.000000050)	ND(0.000000017) [ND(0.0000000085)]
1,2,3,7,8,9-HxCDD	ND(0.000000051)	ND(0.000000050)	ND(0.000000015) [ND(0.0000000076)]
HxCDDs (total)	ND(0.000000051)	ND(0.000000050)	ND(0.000000017) [ND(0.0000000085)]
1,2,3,4,6,7,8-HpCDD	ND(0.000000051)	ND(0.000000050)	ND(0.000000036) [ND(0.000000013)]
HpCDDs (total)	ND(0.000000051)	ND(0.000000050)	ND(0.000000036) [ND(0.000000013)]
OCDD	0.000000029 J	ND(0.00000010)	ND(0.000000033) [ND(0.000000015)]
Total TEQs (WHO TEFs)	0.000000072	0.000000066	0.000000015 [0.000000074]

Table B-1 OPCA Monitoring Program

Sample ID:	OPCA-MW-1R	OPCA-MW-1R	OPCA-MW-2
Parameter Date Collected:	04/19/07	10/05/07	06/15/99
Inorganics-Unfiltered			
Antimony	NA	NA	ND(0.0600) [ND(0.0600)]
Arsenic	NA	NA	ND(0.00600) [ND(0.00600)]
Barium	NA	NA	0.0320 [0.0340]
Beryllium	NA	NA	ND(0.00600) [ND(0.00600)]
Cadmium	NA	NA	ND(0.00600) [ND(0.00600)]
Chromium	NA	NA	ND(0.0130) [ND(0.0130)]
Cobalt	NA	NA	ND(0.0600) [ND(0.0600)]
Copper	NA	NA	ND(0.0330) [ND(0.0330)]
Mercury	NA	NA	ND(0.000500) [ND(0.000500)]
Nickel	NA	NA	ND(0.0600) [ND(0.0600)]
Selenium	NA	NA	ND(0.00600) J [ND(0.00600) J]
Silver	NA	NA	ND(0.0130) [ND(0.0130)]
Sulfide	ND(1.00)	ND(1.00)	ND(5.00) [ND(5.00)]
Thallium	NA	NA	ND(0.0130) [ND(0.0130)]
Tin	NA	NA	ND(0.300) [ND(0.300)]
Vanadium	NA	NA	ND(0.0600) [ND(0.0600)]
Zinc	NA	NA	ND(0.0260) [ND(0.0260)]
Inorganics-Filtered			
Antimony	ND(0.0400)	ND(0.0400)	NA
Arsenic	ND(0.0100)	ND(0.0100)	NA
Barium	0.0646 B	ND(0.107)	NA
Beryllium	0.00194 J	ND(0.0100) J	NA
Cadmium	ND(0.0100) J	ND(0.0050) J	NA
Chromium	ND(0.0100) J	ND(0.0100) J	NA
Cobalt	ND(0.0100) J	ND(0.0100)	NA
Copper	ND(0.0100) J	ND(0.0100) J	NA
Mercury	ND(0.000285)	ND(0.000285)	NA
Nickel	ND(0.0100) J	ND(0.0100) J	NA
Selenium	ND(0.0200)	ND(0.0200) J	NA
Silver	ND(0.0100)	ND(0.0100) J	NA
Thallium	ND(0.0100)	ND(0.0100)	NA
Tin	ND(0.0100) J	ND(0.100) J	NA
Vanadium	0.00665 B	ND(0.0500)	NA
Zinc	0.0388	ND(0.0200)	NA

Table B-1 OPCA Monitoring Program

Parameter	Sample ID: Date Collected:	OPCA-MW-2 05/02/01	OPCA-MW-2 11/09/06	OPCA-MW-2 04/19/07
Volatile Orga		30,02,03	1 00. 00	0.7.10,01
1,1,1-Trichlord		ND(0.0050)	ND(0.0010)	ND(0.0010)
1.1-Dichloroet		ND(0.0050)	ND(0.0010)	ND(0.0010)
Acetone	i i di i o	ND(0.010)	ND(0.0050) J	ND(0.0050) J
Benzene		ND(0.0050)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0050)	ND(0.0010)	ND(0.0010)
Chlorobenzen	е	ND(0.0050)	ND(0.0010)	ND(0.0010)
Chloroform	-	ND(0.0050)	ND(0.0010)	ND(0.0010)
Chloromethan	е	ND(0.0050)	0.00033 J	ND(0.0010)
Tetrachloroeth		ND(0.0020)	ND(0.0010)	ND(0.0010)
Toluene		ND(0.0050)	0.0010	ND(0.0010)
Trichloroethen	ne	ND(0.0050)	ND(0.0010)	ND(0.0010)
Trichlorofluoro	methane	ND(0.0050)	ND(0.0010)	ND(0.0010)
Vinyl Chloride		ND(0.0020)	ND(0.0010)	ND(0.0010) J
Total VOCs		ND(0.20)	0.0013 J	ND(0.10)
PCBs-Unfilter	red	· · · · · ·		· ·
Aroclor-1254		ND(0.000065)	NA	NA
Aroclor-1260		ND(0.000065)	NA	NA
Total PCBs		ND(0.000065)	NA	NA
PCBs-Filtered	d	,		
Aroclor-1254		ND(0.000065)	ND(0.00011) J	ND(0.00011)
Aroclor-1260		ND(0.000065)	ND(0.00011) J	ND(0.00011)
Total PCBs		ND(0.000065)	ND(0.00011) J	ND(0.00011)
Semivolatile	Organics	(/	((/
3,3'-Dichlorob		ND(0.020)	ND(0.020) J	ND(0.020)
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhex		ND(0.0060)	ND(0.010)	ND(0.010)
Dibenzofuran		ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphtha	late	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010)	ND(0.010) J	ND(0.010)
Furans	<u> </u>	` '	,	· · ·
2,3,7,8-TCDF		ND(0.000000013)	ND(0.000000010)	ND(0.000000035) X
TCDFs (total)		ND(0.000000013)	ND(0.000000010)	ND(0.000000016)
1,2,3,7,8-PeC	DF	ND(0.0000000020)	ND(0.000000051)	ND(0.000000055)
2,3,4,7,8-PeC	DF	ND(0.0000000020)	ND(0.000000051)	ND(0.000000055)
PeCDFs (total)	ND(0.0000000020)	ND(0.000000051)	ND(0.000000055)
1,2,3,4,7,8-Hx	CDF	ND(0.0000000022)	ND(0.000000051)	ND(0.000000055)
1,2,3,6,7,8-Hx	CDF	ND(0.000000010)	ND(0.000000051)	ND(0.000000055)
1,2,3,7,8,9-Hx	CDF	ND(0.000000014)	ND(0.000000051)	ND(0.000000055)
2,3,4,6,7,8-Hx	CDF	ND(0.000000012)	ND(0.000000051)	ND(0.000000055)
HxCDFs (total)	ND(0.0000000022)	ND(0.000000051)	ND(0.000000055)
1,2,3,4,6,7,8-H	HpCDF	ND(0.000000018)	ND(0.000000051)	ND(0.000000055)
1,2,3,4,7,8,9-H	HpCDF	ND(0.0000000022)	ND(0.000000051)	ND(0.000000055)
HpCDFs (total)	ND(0.0000000020)	ND(0.000000051)	ND(0.000000055)
OCDF		ND(0.0000000043)	ND(0.00000010)	ND(0.000000011)
Dioxins				
2,3,7,8-TCDD		ND(0.000000017)	ND(0.000000016)	ND(0.0000000021)
TCDDs (total)		ND(0.000000017)	ND(0.000000016)	ND(0.0000000021)
1,2,3,7,8-PeC		ND(0.000000018)	ND(0.000000051)	ND(0.000000055)
PeCDDs (tota	,	ND(0.000000018)	ND(0.000000051)	ND(0.000000055)
1,2,3,4,7,8-Hx		ND(0.000000017)	ND(0.000000051)	ND(0.000000055)
1,2,3,6,7,8-Hx		ND(0.000000017)	ND(0.000000051)	ND(0.000000055)
1,2,3,7,8,9-Hx		ND(0.000000017)	ND(0.000000051)	ND(0.000000055)
HxCDDs (total	l)	ND(0.000000017)	ND(0.000000051)	ND(0.000000055)
1,2,3,4,6,7,8-H	•	ND(0.0000000031)	ND(0.000000051)	ND(0.000000055)
HpCDDs (tota	l)	ND(0.0000000031)	ND(0.000000051)	ND(0.000000055)
OCDD		ND(0.000000012)	0.00000015 J	ND(0.000000011)
Total TEQs (V	VHO TEFs)	0.000000029	0.000000066	0.000000074

Table B-1 OPCA Monitoring Program

Sample ID:	OPCA-MW-2	OPCA-MW-2	OPCA-MW-2
Parameter Date Collected:	05/02/01	11/09/06	04/19/07
Inorganics-Unfiltered			
Antimony	ND(0.0600)	NA	NA
Arsenic	ND(0.0100)	NA	NA
Barium	0.0190 B	NA	NA
Beryllium	ND(0.00100)	NA	NA
Cadmium	ND(0.00500)	NA	NA
Chromium	ND(0.025) J	NA	NA
Cobalt	ND(0.0500)	NA	NA
Copper	ND(0.0250)	NA	NA
Mercury	ND(0.000200)	NA	NA
Nickel	ND(0.0400)	NA	NA
Selenium	0.00890	NA	NA
Silver	ND(0.00500)	NA	NA
Sulfide	ND(5.00)	ND(1.00)	ND(1.00)
Thallium	ND(0.010) J	NA	NA
Tin	ND(0.0300)	NA	NA
Vanadium	ND(0.0500)	NA	NA
Zinc	0.016 BJ	NA	NA
Inorganics-Filtered			
Antimony	ND(0.0600)	ND(0.0400)	ND(0.0400)
Arsenic	ND(0.0100)	ND(0.0100) J	ND(0.0100)
Barium	0.0180 B	ND(0.500) J	ND(0.0100)
Beryllium	ND(0.00100)	ND(0.0100) J	0.00386 J
Cadmium	ND(0.00500)	ND(0.00500)	ND(0.0100) J
Chromium	ND(0.025) J	ND(0.0100)	ND(0.0100) J
Cobalt	ND(0.0500)	ND(0.0100) J	ND(0.0100) J
Copper	ND(0.0250)	ND(0.200)	ND(0.0100) J
Mercury	ND(0.000200)	ND(0.000285)	ND(0.000285)
Nickel	ND(0.0400)	ND(0.0500) J	ND(0.0100) J
Selenium	ND(0.00500)	ND(0.0200) J	0.0111 B
Silver	ND(0.00500)	ND(0.0100)	ND(0.0100)
Thallium	ND(0.010) J	ND(0.0100) J	ND(0.0100)
Tin	ND(0.0300)	ND(0.100)	ND(0.0100) J
Vanadium	ND(0.0500)	ND(0.0500) J	ND(0.0500)
Zinc	0.020 BJ	0.00485 B	0.00586 B

Table B-1 OPCA Monitoring Program

Parameter Date Collected: Volatile Organics	10/08/07	06/16/99	05/02/01
	0.00040 1.00.00040 17	ND(0.0050)	NID (0.0050)
1,1,1-Trichloroethane	0.00013 J [0.00013 J]	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Acetone	ND(0.0050) J [ND(0.0050) J]	ND(0.10)	ND(0.010)
Benzene	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Chloroform Chloromethane	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Tetrachloroethene		ND(0.010)	ND(0.0050)
Toluene	ND(0.0010) [ND(0.0010)] ND(0.0010) [ND(0.0010)]	ND(0.0050) ND(0.0050)	ND(0.0020) ND(0.0050)
Trichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	0.00040 J [0.00041 J]	ND(0.0050)	ND(0.0050)
Vinyl Chloride Total VOCs	ND(0.0010) [ND(0.0010)] 0.00053 J [0.00054 J]	ND(0.010)	ND(0.0020)
	0.00053 J [0.00054 J]	ND(0.20)	ND(0.20)
PCBs-Unfiltered	NIA	0.000040.1	ND(0.00005)
Aroclor-1254	NA NA	0.000040 J	ND(0.000065)
Aroclor-1260	NA	ND(0.000051)	ND(0.000065)
Total PCBs	NA	0.000040 J	ND(0.000065)
PCBs-Filtered			
Aroclor-1254	ND(0.00010) [ND(0.00010)]	NA	ND(0.000065)
Aroclor-1260	ND(0.00010) [ND(0.00010)]	NA	ND(0.000065)
Total PCBs	ND(0.00010) [ND(0.00010)]	NA	ND(0.000065)
Semivolatile Organics			
3,3'-Dichlorobenzidine	ND(0.020) [ND(0.020)]	ND(0.054)	ND(0.020)
Acenaphthene	ND(0.010) [ND(0.010)]	ND(0.011)	ND(0.010)
bis(2-Ethylhexyl)phthalate	ND(0.010) [ND(0.010)]	ND(0.011)	ND(0.0060)
Dibenzofuran	ND(0.010) [ND(0.010)]	ND(0.011)	ND(0.010)
Dimethylphthalate	ND(0.010) [ND(0.010)]	ND(0.011)	ND(0.010)
Naphthalene	ND(0.010) [ND(0.010)]	ND(0.011)	ND(0.010)
Furans			
	0.000000014) [ND(0.000000015) X]	ND(0.000000035)	ND(0.000000011)
TCDFs (total)	0.000000036 J [0.00000050 J]	ND(0.000000035)	ND(0.000000011)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000041)	ND(0.000000016)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000039)	ND(0.000000016)
PeCDFs (total)	0.000000016 J [0.00000049 J]	ND(0.000000041)	ND(0.0000000016)
	ID(0.0000000050) [0.0000000055 J]	ND(0.000000013)	ND(0.0000000010)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000013)	ND(0.0000000010)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000018)	ND(0.000000013)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000013)	ND(0.000000011)
	ND(0.0000000050) [0.000000017 J]	ND(0.000000018)	ND(0.000000011)
	0(0.0000000050) [ND(0.000000051)]	ND(0.0000000080)	ND(0.000000014)
1,2,3,4,7,8,9-HpCDF ND	0(0.0000000050) [ND(0.000000051)]	ND(0.000000099)	ND(0.000000017)
. , ,	0(0.0000000050) [ND(0.000000051)]	ND(0.000000099)	ND(0.000000015)
	D(0.000000010) [ND(0.000000010)]	ND(0.0000000041)	ND(0.0000000031)
Dioxins			
	0.000000014) [ND(0.000000018) X]	ND(0.0000000020)	ND(0.000000016)
	0(0.0000000014) [ND(0.0000000012)]	ND(0.0000000020)	ND(0.000000016)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000089)	ND(0.000000018)
, ,	0(0.0000000050) [ND(0.000000051)]	ND(0.0000000089)	ND(0.000000018)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000058)	ND(0.000000016)
	0(0.0000000050) [ND(0.000000051)]	ND(0.0000000072)	ND(0.000000017)
	0(0.0000000050) [ND(0.000000051)]	ND(0.000000064)	ND(0.000000016)
	0(0.0000000050) [ND(0.000000051)]	ND(0.0000000072)	ND(0.000000016)
1,2,3,4,6,7,8-HpCDD ND	0(0.0000000050) [ND(0.000000051)]	ND(0.000000077)	ND(0.0000000025)
HpCDDs (total) ND	0(0.0000000050) [ND(0.0000000051)]	ND(0.000000077)	ND(0.0000000025)
OCDD	ND(0.000000010) [0.000000015 J]	ND(0.000000048)	ND(0.00000010)
Total TEQs (WHO TEFs)	0.0000000065 [0.0000000071]	0.000000081	0.000000027

Table B-1 OPCA Monitoring Program

Sample ID:		OPCA-MW-2	OPCA-MW-3	OPCA-MW-3 05/02/01
Parameter	Date Collected:	10/08/07	08/07 06/16/99	
Inorganics-Un	filtered			
Antimony		NA	ND(0.0600)	ND(0.0600)
Arsenic		NA	ND(0.00600)	0.00420 B
Barium		NA	0.00950	0.0760 B
Beryllium		NA	ND(0.00600)	ND(0.00100)
Cadmium		NA	ND(0.00600) J	ND(0.00500)
Chromium		NA	ND(0.0130)	ND(0.025) J
Cobalt		NA	ND(0.0600)	ND(0.0500)
Copper		NA	ND(0.0330)	0.00610 B
Mercury		NA	ND(0.000500)	ND(0.000200)
Nickel		NA	ND(0.0600)	ND(0.0400)
Selenium		NA	ND(0.00600)	0.00540
Silver		NA	ND(0.0130)	ND(0.00500)
Sulfide		ND(1.00) J [ND(1.00) J]	ND(5.00)	ND(5.00)
Thallium		NA	ND(0.0130)	ND(0.010) J
Tin		NA	ND(0.300) j	ND(0.0300)
Vanadium		NA	ND(0.0600)	ND(0.0500)
Zinc		NA	0.0880	0.035 J
Inorganics-Filt	ered			
Antimony		ND(0.0400) [ND(0.0400)]	NA	ND(0.0600)
Arsenic		ND(0.0100) J [ND(0.0100) J]	NA	ND(0.0100)
Barium		0.0144 B [0.0128 B]	NA	0.0700 B
Beryllium		ND(0.0100) J [ND(0.0100) J]	NA	ND(0.00100)
Cadmium		ND(0.00500) J [ND(0.00500) J]	NA	ND(0.00500)
Chromium		ND(0.0100) [ND(0.0100)]	NA	ND(0.025) J
Cobalt		ND(0.0100) [ND(0.0100)]	NA	ND(0.0500)
Copper		ND(0.0100) [ND(0.0100)]	NA	0.00660 B
Mercury		ND(0.000285) [ND(0.000285)]	NA	ND(0.000200)
Nickel			NA	ND(0.0400)
Selenium	1 / /3		NA	ND(0.00500)
Silver			NA	ND(0.00500)
Thallium			NA	ND(0.010) J
Tin			NA	ND(0.0300)
Vanadium		ND(0.0500) [ND(0.0500)]	NA	ND(0.0500)
Zinc		ND(0.0200) [ND(0.0200)]	NA	0.017 J

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-3	OPCA-MW-3	OPCA-MW-3	OPCA-MW-4
Parameter	Date Collected:	11/10/06	04/20/07	10/09/07	06/15/99
Volatile Organi	cs				
1,1,1-Trichloroe		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,1-Dichloroetha	ane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Acetone		ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.10)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chlorobenzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.010)
Tetrachloroethe	ne	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Toluene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichlorofluorom	nethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.010)
Total VOCs		ND(0.10)	ND(0.10)	ND(0.10)	ND(0.20)
PCBs-Unfiltere	a	N.A.			
Aroclor-1254		NA NA	NA NA	NA NA	0.00089
Aroclor-1260		NA NA	NA NA	NA NA	ND(0.000050)
Total PCBs		NA	NA	NA	0.00089
PCBs-Filtered		ND(0.00044)	NB(0.00044)	ND(0.00005)	
Aroclor-1254		ND(0.00011) J	ND(0.00011)	ND(0.000065)	NA NA
Aroclor-1260 Total PCBs		ND(0.00011) J ND(0.00011) J	ND(0.00011) ND(0.00011)	ND(0.000065) ND(0.000065)	NA NA
		ND(0.00011) J	ND(0.00011)	ND(0.000065)	INA
Semivolatile O			ND(0.000)	ND(0.000)	ND(0.050)
3,3'-Dichlorober	nziaine	R ND(0.040)	ND(0.020)	ND(0.020)	ND(0.052)
Acenaphthene	\	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexyl Dibenzofuran)pntnaiate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) ND(0.010)
Dimethylphthala	ato.	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Naphthalene	ile	ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)
Furans		14D(0.010) 9	ND(0.010)	ND(0.010)	ND(0.010)
2,3,7,8-TCDF		ND(0.000000011)	0.000000037 J	ND(0.000000015)	ND(0.00000000070)
TCDFs (total)		ND(0.0000000011)	0.0000000037 J	ND(0.0000000015)	ND(0.00000000070)
1,2,3,7,8-PeCD	F	ND(0.0000000011)	ND(0.000000055)	ND(0.0000000013)	ND(0.00000000070)
2,3,4,7,8-PeCD		ND(0.0000000055)	ND(0.0000000055)	ND(0.0000000050)	ND(0.0000000040)
PeCDFs (total)		ND(0.0000000055)	ND(0.0000000055)	ND(0.0000000000)	ND(0.000000043)
1,2,3,4,7,8-HxC	DF	ND(0.0000000055)	ND(0.0000000055)	ND(0.0000000000)	ND(0.00000000000)
1,2,3,6,7,8-HxC		ND(0.0000000055)	ND(0.0000000055)	ND(0.0000000000)	ND(0.0000000092)
1,2,3,7,8,9-HxC		ND(0.000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.0000000087)
2,3,4,6,7,8-HxC		ND(0.0000000055)	ND(0.0000000055)	ND(0.000000050)	ND(0.000000095)
HxCDFs (total)		ND(0.000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.0000000095)
1,2,3,4,6,7,8-Hp	CDF	ND(0.000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.000000020)
1,2,3,4,7,8,9-Hp	CDF	ND(0.000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.000000020)
HpCDFs (total)		ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.000000020)
OCDF		ND(0.00000011)	ND(0.00000011)	ND(0.00000010)	ND(0.000000020)
Dioxins					
2,3,7,8-TCDD		ND(0.0000000011)	ND(0.0000000021)	ND(0.000000017)	ND(0.000000013)
TCDDs (total)		ND(0.000000015)	ND(0.0000000021)	ND(0.000000017)	ND(0.000000013)
1,2,3,7,8-PeCD	D	ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.00000018)
PeCDDs (total)		ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.00000018)
1,2,3,4,7,8-HxC		ND(0.0000000055)	ND(0.0000000055)	ND(0.000000050)	ND(0.00000013)
1,2,3,6,7,8-HxC	DD	ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.00000016)
1,2,3,7,8,9-HxC	DD	ND(0.0000000055)	ND(0.000000055)	ND(0.0000000050)	ND(0.00000014)
HxCDDs (total)		ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.00000016)
1,2,3,4,6,7,8-Hp	CDD	ND(0.0000000055)	ND(0.0000000055)	ND(0.000000050)	ND(0.00000027)
HpCDDs (total)		ND(0.0000000055)	ND(0.000000055)	ND(0.000000050)	ND(0.000000027)
OCDD		ND(0.00000011)	ND(0.000000011)	ND(0.000000010)	ND(0.00000030)
Total TEQs (Wh	HO TEFs)	0.0000000069	0.000000076	0.000000067	0.00000015

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-3	OPCA-MW-3	OPCA-MW-3	OPCA-MW-4
Parameter	Date Collected:	11/10/06	04/20/07	10/09/07	06/15/99
Inorganics-U	Infiltered				
Antimony		NA	NA	NA	ND(0.0600)
Arsenic		NA	NA	NA	ND(0.00600)
Barium		NA	NA	NA	0.0370
Beryllium		NA	NA	NA	ND(0.00600)
Cadmium		NA	NA	NA	ND(0.00600)
Chromium		NA	NA	NA	ND(0.0130)
Cobalt		NA	NA	NA	ND(0.0600)
Copper		NA	NA	NA	ND(0.0330)
Mercury		NA	NA	NA	ND(0.000500)
Nickel		NA	NA	NA	ND(0.0600)
Selenium		NA	NA	NA	ND(0.00600) J
Silver		NA	NA	NA	ND(0.0130)
Sulfide		ND(1.00)	ND(1.00)	ND(1.00)	ND(5.00)
Thallium		NA	NA	NA	ND(0.0130)
Tin		NA	NA	NA	ND(0.300)
Vanadium		NA	NA	NA	ND(0.0600)
Zinc		NA	NA	NA	ND(0.0260)
Inorganics-F	iltered				
Antimony		ND(0.0400)	ND(0.0400)	ND(0.0400)	NA
Arsenic		ND(0.0100) J	ND(0.0100)	ND(0.0100)	NA
Barium		ND(0.500) J	0.0566 B	0.0620 B	NA
Beryllium		0.00135 J	0.00713 J	0.000330 B	NA
Cadmium		ND(0.00500) J	ND(0.0100) J	ND(0.00500) J	NA
Chromium		ND(0.0100)	ND(0.0100)	ND(0.0100) J	NA
Cobalt		ND(0.0100) J	ND(0.0100) J	ND(0.0100)	NA
Copper		ND(0.200) J	ND(0.0100) J	ND(0.0100)	NA
Mercury		ND(0.000285)	0.000197 B	ND(0.000285)	NA
Nickel		ND(0.0500) J	0.00664 J	ND(0.0100)	NA
Selenium		ND(0.0200) J	ND(0.0200)	ND(0.0200)	NA
Silver		ND(0.0100)	ND(0.0100)	ND(0.0100)	NA
Thallium		0.0110 J	ND(0.0100) J	ND(0.0100) J	NA
Tin		ND(0.100)	ND(0.0100) J	ND(0.0100)	NA
Vanadium		ND(0.0500) J	ND(0.0500)	ND(0.0500)	NA NA
Zinc		0.00565 B	0.0119 B	ND(0.0200)	NA

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-4	OPCA-MW-4	OPCA-MW-4
Parameter	Date Collected:	05/02/01	11/09/06	04/18/07
Volatile Organ				
1,1,1-Trichloro		ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,1-Dichloroeth	hane	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Acetone		ND(0.010)	ND(0.0050) J [ND(0.0050) J]	ND(0.0050)
Benzene		ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Bromoform		ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chlorobenzene	е	ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloroform		ND(0.0050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Chloromethan		ND(0.0050)	0.00068 J [0.00039 J]	ND(0.0010)
Tetrachloroeth	iene	ND(0.0020)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
Toluene Trichloroethen	_	ND(0.0050)	ND(0.0010) [0.00073 J]	ND(0.0010) 0.0010
Trichlorofluoro		ND(0.0050)	0.0020 [0.0020] ND(0.0010) [ND(0.0010)]	ND(0.0010)
Vinyl Chloride	memane	ND(0.0050) ND(0.0020)	0.00055 J [0.00057 J]	ND(0.0010)
Total VOCs		ND(0.0020) ND(0.20)	0.00055 J [0.00057 J] 0.0032 J [0.0037 J]	0.0010)
PCBs-Unfilter	rad	ND(0.20)	0.0032 3 [0.0037 3]	0.0010
-	Eu	0.000093	I NIA	N1 A
Aroclor-1254 Aroclor-1260		0.000093 ND(0.000065)	NA NA	NA NA
Total PCBs		0.000093	NA NA	NA NA
PCBs-Filtered	1	0.000093	INA	INA
Aroclor-1254	<i>a</i>	0.00015	ND(0.00011) J [ND(0.00011) J]	ND(0.00011)
Aroclor-1260		ND(0.00065)	ND(0.00011) J [ND(0.00011) J]	0.000043 J
Total PCBs		0.00015	ND(0.00011) J [ND(0.00011) J]	0.000043 J
Semivolatile (Organics	0.00013	ND(0.00011) 3 [ND(0.00011) 3]	0.000043 3
3,3'-Dichlorobe		ND(0.020)	ND(0.020) J [R]	ND(0.020)
Acenaphthene		ND(0.020)	ND(0.020) 3 [K] ND(0.010) [ND(0.010)]	ND(0.020) ND(0.010)
bis(2-Ethylhex		ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Dibenzofuran	yi)piilialale	ND(0.000)	ND(0.010) [ND(0.010)]	ND(0.010)
Dimethylphtha	lato	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Naphthalene	iiato	ND(0.010)	ND(0.010) J [ND(0.010) J]	ND(0.010)
Furans		142(0.010)	112 (0.010) 0 [112 (0.010) 0]	142(0.010)
2,3,7,8-TCDF		ND(0.0000000012)	ND(0.000000010) [ND(0.000000010)]	ND(0.000000016)
TCDFs (total)		0.000000012)	0.0000000052 J [0.000000029 J]	ND(0.000000016)
1,2,3,7,8-PeCI	DF	ND(0.00000000000000000000000000000000000	ND(0.000000050) [ND(0.000000052)]	ND(0.0000000055)
2,3,4,7,8-PeCI		ND(0.000000011)	ND(0.0000000050) [ND(0.000000052)]	ND(0.0000000055)
PeCDFs (total)		ND(0.00000063)	0.000000019 J [0.000000013 J]	ND(0.000000055) Q
1,2,3,4,7,8-Hx		ND(0.0000000053)	ND(0.000000050) [ND(0.000000052)]	ND(0.000000055)
1,2,3,6,7,8-Hx		ND(0.0000000045)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,7,8,9-Hx		ND(0.000000056)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
2,3,4,6,7,8-Hx	CDF	ND(0.000000032)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
HxCDFs (total))	ND(0.000000019)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,4,6,7,8-H		ND(0.0000000046)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,4,7,8,9-H	HpCDF	ND(0.000000037)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
HpCDFs (total))	ND(0.0000000084)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
OCDF		ND(0.0000000090)	ND(0.000000010) [ND(0.000000010)]	ND(0.00000011)
Dioxins				
2,3,7,8-TCDD		ND(0.0000000047)	ND(0.0000000010) [ND(0.0000000014)]	ND(0.000000018)
TCDDs (total)		ND(0.0000000047)	ND(0.0000000010) [ND(0.0000000014)]	ND(0.000000018)
1,2,3,7,8-PeCI		ND(0.0000000065)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
PeCDDs (total		ND(0.0000000065)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,4,7,8-Hx		ND(0.0000000043)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
	1,2,3,6,7,8-HxCDD ND(0.0		ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,7,8,9-HxCDD		ND(0.000000052)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
HxCDDs (total	,	ND(0.0000000094)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.000000055)
1,2,3,4,6,7,8-H		ND(0.0000000064)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.0000000055)
HpCDDs (total	l)	ND(0.0000000064)	ND(0.0000000050) [ND(0.0000000052)]	ND(0.0000000055)
OCDD	"10 TET '	ND(0.000000029)	ND(0.000000010) [ND(0.000000010)]	0.000000015 J
Total TEQs (W	/HO IEFs)	0.00000010	0.0000000063 [0.0000000066]	0.000000073

Table B-1 OPCA Monitoring Program

Sample ID:		OPCA-MW-4	OPCA-MW-4	OPCA-MW-4
Parameter	Date Collected:	05/02/01	11/09/06	04/18/07
Inorganics-U	nfiltered			
Antimony		ND(0.0600)	NA	NA
Arsenic		ND(0.0100)	NA	NA
Barium		0.0270 B	NA	NA
Beryllium		ND(0.00100)	NA	NA
Cadmium		ND(0.00500)	NA	NA
Chromium		ND(0.0100) J	NA	NA
Cobalt		ND(0.0500)	NA	NA
Copper		ND(0.0250)	NA	NA
Mercury		ND(0.000200)	NA	NA
Nickel		ND(0.0400)	NA	NA
Selenium		ND(0.00500)	NA	NA
Silver		ND(0.00500)	NA	NA
Sulfide		ND(5.00)	ND(1.00) [ND(1.00)]	ND(1.00)
Thallium		ND(0.0100) J	NA	NA
Tin		ND(0.0300)	NA	NA
Vanadium		ND(0.0500)	NA	NA
Zinc		0.0130 J	NA	NA
Inorganics-F	iltered			
Antimony		0.00800 B	ND(0.0400) [ND(0.0400)]	ND(0.0400)
Arsenic		ND(0.0100)	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J
Barium		0.0260 B	ND(0.500) J [ND(0.500) J]	0.00875 B
Beryllium		ND(0.00100)	0.000590 J [0.00249 J]	ND(0.0100)
Cadmium		ND(0.00500)	ND(0.00500) J [ND(0.00500)]	ND(0.0100)
Chromium		ND(0.0100) J	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Cobalt		ND(0.0500)	ND(0.0100) J [ND(0.0100) J]	ND(0.0100)
Copper		ND(0.0250)	ND(0.200) J [ND(0.200)]	ND(0.0100) J
Mercury		ND(0.000200)	ND(0.000285) [ND(0.000285)]	ND(0.000285)
Nickel		ND(0.0400)	ND(0.0500) J [ND(0.0500) J]	0.00585 B
Selenium		0.00650	ND(0.0200) J [ND(0.0200) J]	ND(0.0200)
Silver		ND(0.00500)	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Thallium		ND(0.0100) J 0.00666 J [ND(0.0100) J]		ND(0.0100)
Tin		ND(0.0300)	ND(0.100) [ND(0.100)]	0.0332 J
Vanadium	ND(0.0500) ND(0.0500) J [ND(0.0500) J]		ND(0.0500)	
Zinc		0.0150 J	0.00883 B [0.00999 B]	0.0290

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-4	OPCA-MW-5	OPCA-MW-5R	OPCA-MW-5R
Parameter	Date Collected:	10/09/07	06/15/99	06/28/01	11/09/06
Volatile Organ	nics				
1,1,1-Trichloro	ethane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
1,1-Dichloroeth	hane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Acetone		ND(0.0050) J	ND(0.10)	ND(0.010) J	ND(0.0050) J
Benzene		ND(0.0010)	ND(0.0050)	ND(0.0050)	0.00024 J
Bromoform		ND(0.0010)	ND(0.0050)	ND(0.0050) J	ND(0.0010)
Chlorobenzene	е	ND(0.0010)	ND(0.0050)	ND(0.0050)	0.0018
Chloroform		ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Chloromethan		ND(0.0010)	ND(0.010)	ND(0.0050)	ND(0.0010)
Tetrachloroeth	ene	ND(0.0010)	ND(0.0050)	ND(0.0020)	ND(0.0010)
Toluene		0.00032 J	ND(0.0050)	ND(0.0050)	0.0011
Trichloroethen		0.0017	ND(0.0050)	ND(0.0050)	ND(0.0010)
Trichlorofluoro	methane	ND(0.0010)	ND(0.0050)	ND(0.0050)	ND(0.0010)
Vinyl Chloride		ND(0.0010)	ND(0.010)	ND(0.0020)	ND(0.0010)
Total VOCs		0.0020 J	ND(0.20)	ND(0.20)	0.0031 J
PCBs-Unfilter	red			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Aroclor-1254		NA NA	ND(0.000051)	ND(0.000065)	NA NA
Aroclor-1260		NA	ND(0.000051)	ND(0.000065)	NA
Total PCBs		NA	ND(0.000051)	ND(0.000065)	NA
PCBs-Filtered	1	N. (2. 22.22.2)		1	1 15(2.22.42)
Aroclor-1254		ND(0.000065)	NA	ND(0.000065)	ND(0.00010) J
Aroclor-1260		ND(0.000065)	NA	ND(0.000065)	ND(0.00010) J
Total PCBs	_	ND(0.000065)	NA	ND(0.000065)	ND(0.00010) J
Semivolatile (1	1
3,3'-Dichlorobe		ND(0.020)	ND(0.051)	ND(0.020) J	ND(0.020) J
Acenaphthene		ND(0.010)	ND(0.010)	0.011	ND(0.010)
bis(2-Ethylhex	yl)phthalate	ND(0.010)	ND(0.010)	ND(0.0060) J	ND(0.010)
Dibenzofuran		ND(0.010)	ND(0.010)	0.0038 J	ND(0.010)
Dimethylphtha	late	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010)	ND(0.010)	0.062	ND(0.010) J
Furans			\ <u>\</u>	1	1
2,3,7,8-TCDF		ND(0.0000000020)	ND(0.00000000080)	ND(0.000000000015)	ND(0.0000000010)
TCDFs (total)		ND(0.0000000020)	ND(0.00000000080)	ND(0.000000000015)	0.0000000012 J
1,2,3,7,8-PeCI		ND(0.0000000052)	ND(0.0000000028)	ND(0.00000000000080)	ND(0.0000000051)
2,3,4,7,8-PeCI		ND(0.0000000052)	ND(0.0000000027)	ND(0.00000000000080)	ND(0.0000000051)
PeCDFs (total)		ND(0.0000000056)	ND(0.0000000028)	ND(0.00000000000080)	ND(0.0000000051)
1,2,3,4,7,8-Hx		ND(0.0000000052)	ND(0.0000000050)	ND(0.00000000000000000000000000000000000	ND(0.0000000051)
1,2,3,6,7,8-Hx		ND(0.000000052) ND(0.000000052)	ND(0.000000051) ND(0.0000000049)	ND(0.000000000019) ND(0.0000000000024)	ND(0.000000051) ND(0.000000051)
		(ND(0.000000049)	ND(0.0000000000024) ND(0.00000000000022)	(/
2,3,4,6,7,8-Hx		ND(0.000000052) ND(0.000000052)	ND(0.0000000053)	ND(0.0000000000022)	ND(0.000000051) ND(0.000000051)
HxCDFs (total)		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000000021)	ND(0.000000051)
1,2,3,4,6,7,8,9-H		ND(0.0000000052)	ND(0.0000000088)	ND(0.0000000000019)	ND(0.000000051)
HpCDFs (total		ND(0.0000000052)	ND(0.0000000088)	ND(0.0000000000023)	ND(0.0000000051)
OCDF)	ND(0.0000000032)	ND(0.0000000000)	ND(0.000000000010)	ND(0.000000001)
Dioxins		112(0.000000010)	112(0.000000000)	112(0.00000000000000)	112(0.00000010)
2,3,7,8-TCDD		ND(0.0000000025)	ND(0.0000000012)	ND(0.000000000031)	ND(0.000000015)
TCDDs (total)		ND(0.0000000025)	ND(0.000000012)	ND(0.000000000031)	ND(0.000000015)
1,2,3,7,8-PeCI	חח	ND(0.000000025)	ND(0.000000012)	ND(0.0000000000015)	ND(0.0000000013)
PeCDDs (total		ND(0.0000000052)	ND(0.00000014)	ND(0.0000000000015)	ND(0.0000000051)
1,2,3,4,7,8-Hx	,	ND(0.0000000052)	ND(0.000000014)	ND(0.0000000000044)	ND(0.0000000051)
1,2,3,6,7,8-Hx		ND(0.0000000052)	ND(0.0000000002)	ND(0.0000000000031)	ND(0.0000000051)
1,2,3,7,8,9-Hx		ND(0.0000000052)	ND(0.0000000077)	ND(0.0000000000031)	ND(0.0000000051)
HxCDDs (total		ND(0.0000000052)	ND(0.0000000000)	ND(0.0000000000033)	ND(0.0000000051)
1,2,3,4,6,7,8-F	,	ND(0.0000000052)	ND(0.000000017)	ND(0.0000000000033)	ND(0.0000000051)
HpCDDs (total		ND(0.0000000052)	ND(0.00000012)	ND(0.00000000000000000000000000000000000	ND(0.0000000051)
OCDD (total	'/	ND(0.000000032)	ND(0.000000012)	ND(0.0000000000040)	0.0000000031)
Total TEQs (W	/HO TEFs)	0.0000000073	0.000000012)	0.0000000000035	0.0000000123
. J.C L.C. (VI		0.0000000000	0.00000011	0.000000000	0.00000001

Table B-1 OPCA Monitoring Program

Sample ID:	OPCA-MW-4	OPCA-MW-5	OPCA-MW-5R	OPCA-MW-5R
Parameter Date Collected:	10/09/07	06/15/99	06/28/01	11/09/06
Inorganics-Unfiltered				
Antimony	NA	ND(0.0600)	ND(0.0600)	NA
Arsenic	NA	ND(0.00600)	0.00790 B	NA
Barium	NA	0.0290	0.0590 B	NA
Beryllium	NA	ND(0.00600)	ND(0.00100)	NA
Cadmium	NA	ND(0.00600)	ND(0.00500)	NA
Chromium	NA	ND(0.0130)	0.00430 B	NA
Cobalt	NA	ND(0.0600)	0.00620 B	NA
Copper	NA	ND(0.0330)	ND(0.0250)	NA
Mercury	NA	ND(0.000500)	ND(0.000200)	NA
Nickel	NA	ND(0.0600)	ND(0.0400)	NA
Selenium	NA	ND(0.00600) J	ND(0.00500)	NA
Silver	NA	ND(0.0130)	ND(0.00500)	NA
Sulfide	ND(1.00)	ND(5.00)	8.00	ND(1.00)
Thallium	NA	ND(0.0130)	ND(0.0100)	NA
Tin	NA	ND(0.300)	ND(0.0300)	NA
Vanadium	NA	ND(0.0600)	ND(0.0500)	NA
Zinc	NA	ND(0.0260)	0.0150 B	NA
Inorganics-Filtered		·		•
Antimony	ND(0.0400)	NA	ND(0.0600)	ND(0.0400)
Arsenic	ND(0.0100)	NA	ND(0.0100)	ND(0.0100) J
Barium	0.0270 B	NA	0.0440 B	ND(0.500) J
Beryllium	0.00373 B	NA	0.000860 B	ND(0.0100) J
Cadmium	ND(0.00500) J	NA	0.00140 B	ND(0.00500) J
Chromium	ND(0.0100) J	NA	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0100)	NA	0.00660 B	ND(0.0100) J
Copper	ND(0.0100)	NA	ND(0.0250)	ND(0.200) J
Mercury	ND(0.000285)	NA	ND(0.000200)	ND(0.000285)
Nickel	ND(0.0100)	NA	ND(0.0400)	0.00498 J
Selenium	ND(0.0200)	NA	ND(0.00500)	ND(0.0200) J
Silver	ND(0.0100)	NA	ND(0.00500)	ND(0.0100)
Thallium	ND(0.0100) J	NA	ND(0.0100)	0.00828 J
Tin	ND(0.0100)	NA	ND(0.0300)	ND(0.100)
Vanadium	ND(0.0500)	NA	ND(0.0500)	ND(0.0500) J
Zinc	0.0100 B	NA	0.0110 B	0.0140 B

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-5R	OPCA-MW-5R	OPCA-MW-6	OPCA-MW-6
Parameter	Date Collected:	04/18/07	10/09/07	06/15/99	05/02/01
Volatile Organi	ics				
1,1,1-Trichloroe		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
1,1-Dichloroetha	ane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Acetone		ND(0.0050)	ND(0.0050) J	ND(0.10)	ND(0.010)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chlorobenzene		ND(0.0010)	0.00024 J	ND(0.0050)	ND(0.0050)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Chloromethane		ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0050)
Tetrachloroethe	ene	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0020)
Toluene		ND(0.0010)	0.00011 J	ND(0.0050)	ND(0.0050)
Trichloroethene		ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Trichlorofluorom	nethane	ND(0.0010)	ND(0.0010)	ND(0.0050)	ND(0.0050)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.010)	ND(0.0020)
Total VOCs		ND(0.10)	0.00035 J	ND(0.20)	ND(0.20)
PCBs-Unfiltere	ed				
Aroclor-1254		NA NA	NA NA	0.00012	ND(0.000065)
Aroclor-1260		NA	NA	ND(0.000050)	ND(0.000065)
Total PCBs		NA	NA	0.00012	ND(0.000065)
PCBs-Filtered					
Aroclor-1254		ND(0.00011)	ND(0.00010)	NA	ND(0.000065)
Aroclor-1260		0.00024	ND(0.00010)	NA	ND(0.000065)
Total PCBs		0.00024	ND(0.00010)	NA	ND(0.000065)
Semivolatile O	_				
3,3'-Dichlorober	nzidine	ND(0.020)	ND(0.020)	ND(0.052)	ND(0.020)
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
bis(2-Ethylhexy	l)phthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.0060)
Dibenzofuran		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthala	ate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Furans					
2,3,7,8-TCDF		0.000000017 J	0.0000000076 J	ND(0.00000000000)	ND(0.0000000012)
TCDFs (total)	_	0.0000000017 J	0.00000069 J	ND(0.00000000000)	ND(0.0000000012)
1,2,3,7,8-PeCD		ND(0.0000000053)	ND(0.0000000052) J	ND(0.0000000033)	ND(0.0000000016)
2,3,4,7,8-PeCD	F	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000031)	ND(0.0000000016)
PeCDFs (total)	NDE	ND(0.0000000053) Q	0.00000090 J	ND(0.0000000033)	ND(0.0000000016)
1,2,3,4,7,8-HxC		ND(0.0000000053)	0.00000053	ND(0.0000000089)	ND(0.0000000015)
1,2,3,6,7,8-HxC 1,2,3,7,8,9-HxC		ND(0.000000053) ND(0.000000053)	ND(0.000000052) ND(0.000000052)	ND(0.000000092) ND(0.000000087)	ND(0.000000011) ND(0.000000014)
2,3,4,6,7,8-HxC		ND(0.000000053)	ND(0.000000052)	ND(0.0000000087)	ND(0.000000014) ND(0.0000000012)
HxCDFs (total)	יטר	ND(0.0000000053)	0.000000032)	ND(0.000000095)	ND(0.000000012)
1,2,3,4,6,7,8-Hr	CDE	ND(0.0000000033)	ND(0.00000052)	ND(0.000000093)	ND(0.000000013)
1,2,3,4,0,7,8-11, 1,2,3,4,7,8,9-Hp		ND(0.0000000053)	ND(0.0000000032)	ND(0.00000020)	ND(0.0000000017)
HpCDFs (total)	DCDF	ND(0.000000053)	ND(0.0000000032)	ND(0.000000020)	ND(0.0000000020)
OCDF		ND(0.0000000033)	ND(0.000000032)	ND(0.000000020)	ND(0.0000000018)
Dioxins		142(0:00000011)	142(0.000000010)	112(0:000000020)	142(0.0000000000)
2,3,7,8-TCDD		ND(0.000000016)	ND(0.000000014)	ND(0.000000012)	ND(0.000000017)
TCDDs (total)		ND(0.000000016)	ND(0.000000014)	ND(0.0000000012)	ND(0.000000017)
1,2,3,7,8-PeCD	D	ND(0.000000016)	ND(0.000000014)	ND(0.000000012)	ND(0.0000000017)
PeCDDs (total)	<u> </u>	ND(0.0000000033)	ND(0.000000052) J	ND(0.00000012)	ND(0.000000019)
1,2,3,4,7,8-HxC	:DD	ND(0.0000000033)	ND(0.0000000052) 3	ND(0.00000012)	ND(0.000000019)
1,2,3,6,7,8-HxC		ND(0.0000000033)	ND(0.0000000052)	ND(0.00000012)	ND(0.0000000016)
1,2,3,7,8,9-HxC		ND(0.0000000033)	ND(0.0000000052)	ND(0.00000013)	ND(0.0000000016)
HxCDDs (total)	.55	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000015)	ND(0.0000000016)
1,2,3,4,6,7,8-Hp	CDD	ND(0.0000000033)	ND(0.0000000052)	ND(0.000000013)	ND(0.0000000016)
HpCDDs (total)	7000	ND(0.0000000033)	ND(0.000000052)	ND(0.000000026)	ND(0.000000026)
OCDD (total)		0.0000000033)	0.0000000032)	ND(0.00000029)	ND(0.0000000020)
Total TEQs (Wh	HO TEEs)	0.0000000193	0.000000103	0.000000029)	0.00000000047)
TOTAL TEGS (VII	10 1113)	0.000000010	0.00000012	0.000000012	0.0000000020

Table B-1 OPCA Monitoring Program

Sample ID:	OPCA-MW-5R	OPCA-MW-5R	OPCA-MW-6	OPCA-MW-6
Parameter Date Collected:	04/18/07	10/09/07	06/15/99	05/02/01
Inorganics-Unfiltered				
Antimony	NA	NA	ND(0.0600)	ND(0.0600)
Arsenic	NA	NA	ND(0.00600)	ND(0.0100)
Barium	NA	NA	0.0300	0.0170 B
Beryllium	NA	NA	ND(0.00600)	ND(0.00100)
Cadmium	NA	NA	ND(0.00600)	ND(0.00500)
Chromium	NA	NA	ND(0.0130)	ND(0.0100) J
Cobalt	NA	NA	ND(0.0600)	ND(0.0500)
Copper	NA	NA	ND(0.0330)	0.00400 B
Mercury	NA	NA	ND(0.000500)	ND(0.000200)
Nickel	NA	NA	ND(0.0600)	ND(0.0400)
Selenium	NA	NA	ND(0.00600) J	0.00570
Silver	NA	NA	ND(0.0130)	ND(0.00500)
Sulfide	ND(1.00)	ND(1.00) J	ND(5.00)	ND(5.00)
Thallium	NA	NA	ND(0.0130)	ND(0.0100) J
Tin	NA	NA	ND(0.300)	ND(0.0300)
Vanadium	NA	NA	ND(0.0600)	ND(0.0500)
Zinc	NA	NA	ND(0.0260)	0.0210 J
Inorganics-Filtered		•		
Antimony	ND(0.0400)	ND(0.0400)	NA	ND(0.0600)
Arsenic	ND(0.0100) J	ND(0.0100)	NA	ND(0.0100)
Barium	0.0161 B	0.0536 B	NA	0.0160 B
Beryllium	ND(0.0100)	0.000330 B	NA	ND(0.00100)
Cadmium	ND(0.0100)	ND(0.00500) J	NA	ND(0.00500)
Chromium	ND(0.0100)	ND(0.0100) J	NA	ND(0.0100) J
Cobalt	ND(0.0100)	ND(0.0100)	NA	ND(0.0500)
Copper	ND(0.0100) J	ND(0.0100)	NA	ND(0.0250)
Mercury	ND(0.000285)	ND(0.000285)	NA	ND(0.000200)
Nickel	ND(0.0100)	ND(0.0100)	NA	ND(0.0400)
Selenium	ND(0.0200)	ND(0.0200)	NA	0.00590
Silver	ND(0.0100)	ND(0.0100)	NA	ND(0.00500)
Thallium	ND(0.0100) J	ND(0.0100) J	NA	ND(0.0100) J
Tin	0.00102 J	ND(0.0100)	NA	ND(0.0300)
Vanadium	ND(0.0500)	ND(0.0500)	NA	ND(0.0500)
Zinc	0.0124 B	0.00813 B	NA	0.0150 J

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-6	OPCA-MW-6	OPCA-MW-6	OPCA-MW-7
Parameter	Date Collected:	11/09/06	04/18/07	10/15/07	06/15/99
Volatile Orga					
1,1,1-Trichlord		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
1,1-Dichloroet	hane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Acetone		ND(0.0050) J	ND(0.0050)	ND(0.0050) J	ND(0.10)
Benzene		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Bromoform		ND(0.0010)	ND(0.0010)	ND(0.0010) J	ND(0.0050)
Chlorobenzen	е	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chloroform		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Chloromethan		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.010)
Tetrachloroeth	nene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Toluene		0.00027 J	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichloroethen		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Trichlorofluoro		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0050)
Vinyl Chloride		ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.010)
Total VOCs		0.00027 J	ND(0.10)	ND(0.10)	ND(0.20)
PCBs-Unfilter	red			1	
Aroclor-1254		NA NA	NA NA	NA NA	ND(0.000051)
Aroclor-1260		NA	NA	NA	ND(0.000051)
Total PCBs		NA	NA	NA	ND(0.000051)
PCBs-Filtered	<u>d</u>				
Aroclor-1254		ND(0.00011) J	ND(0.00011)	ND(0.000065)	NA
Aroclor-1260		ND(0.00011) J	ND(0.00011)	ND(0.000065)	NA
Total PCBs		ND(0.00011) J	ND(0.00011)	ND(0.000065)	NA
Semivolatile (
3,3'-Dichlorob		ND(0.020) J	ND(0.020)	ND(0.020)	ND(0.054)
Acenaphthene		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.011)
bis(2-Ethylhex	yl)phthalate	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.011)
Dibenzofuran		ND(0.010)	ND(0.010)	ND(0.010)	ND(0.011)
Dimethylphtha	late	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.011)
Naphthalene		ND(0.010) J	ND(0.010)	ND(0.010)	ND(0.011)
Furans				1	1
2,3,7,8-TCDF		ND(0.000000011)	ND(0.000000012)	ND(0.0000000021)	ND(0.00000000080)
TCDFs (total)		ND(0.000000011)	ND(0.0000000012)	ND(0.0000000021)	ND(0.00000000080)
1,2,3,7,8-PeC		ND(0.000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000030)
2,3,4,7,8-PeC		ND(0.000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000028)
PeCDFs (total		ND(0.000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000030)
1,2,3,4,7,8-Hx		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000069)
1,2,3,6,7,8-Hx		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000070)
1,2,3,7,8,9-Hx		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000067)
2,3,4,6,7,8-Hx		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000073)
HxCDFs (total		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.0000000073)
1,2,3,4,6,7,8-		ND(0.000000052) ND(0.000000052)	ND(0.000000053) ND(0.000000053)	0.000000052 J ND(0.000000052)	ND(0.00000013) ND(0.00000013)
1,2,3,4,7,8,9-		. ,	, ,		· ' /
HpCDFs (total)	ND(0.000000052) ND(0.000000010)	ND(0.0000000053)	0.0000000052 J 0.00000013 J	ND(0.00000013) ND(0.00000012)
OCDF		(טו טטטטטטטט.ט)טאו	ND(0.00000011)	0.00000013 J	ND(0.00000012)
Dioxins		ND(0.000000040)	ND(0.00000004E)	ND(0.000000000)	ND(0.0000000040)
2,3,7,8-TCDD		ND(0.000000018)	ND(0.0000000015)	ND(0.0000000028)	ND(0.0000000013)
TCDDs (total)	DD	ND(0.0000000018)	ND(0.0000000015)	ND(0.0000000028)	ND(0.000000013)
1,2,3,7,8-PeC		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000010)
PeCDDs (total	,	ND(0.000000052) ND(0.000000052)	ND(0.000000053) ND(0.000000053)	ND(0.0000000052)	ND(0.00000010) ND(0.0000000097)
1,2,3,4,7,8-Hx		ND(0.0000000052) ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	,
1,2,3,6,7,8-Hx		((ND(0.0000000052)	ND(0.000000012)
1,2,3,7,8,9-Hx		ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000011)
HxCDDs (total	,	ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000012)
1,2,3,4,6,7,8-H	•	ND(0.0000000052)	ND(0.0000000053)	ND(0.0000000052)	ND(0.000000017)
HpCDDs (tota	1)	ND(0.000000052)	ND(0.0000000053)	ND(0.000000052)	ND(0.000000017)
OCDD	// IO TEEs\	0.000000016 J	ND(0.000000011)	0.000000016 J	ND(0.000000018)
Total TEQs (W	VIO IEFS)	0.000000069	0.000000068	0.000000074	0.000000098

Table B-1 OPCA Monitoring Program

Sample ID: Parameter Date Collected:	OPCA-MW-6	OPCA-MW-6	OPCA-MW-6	OPCA-MW-7
	11/09/06	04/18/07	10/15/07	06/15/99
Inorganics-Unfiltered	NIA .	T N/A	1 110	NID (0.0000)
Antimony	NA NA	NA NA	NA NA	ND(0.0600)
Arsenic		NA NA	NA NA	ND(0.00600)
Barium	NA NA	NA NA	NA NA	0.0270
Beryllium	NA NA	NA	NA NA	ND(0.00600)
Cadmium	NA	NA	NA	ND(0.00600)
Chromium	NA	NA	NA	ND(0.0130)
Cobalt	NA	NA	NA	ND(0.0600)
Copper	NA	NA	NA	ND(0.0330)
Mercury	NA	NA	NA	ND(0.000500)
Nickel	NA	NA	NA	ND(0.0600)
Selenium	NA	NA	NA	ND(0.00600) J
Silver	NA	NA	NA	ND(0.0130)
Sulfide	ND(1.00)	ND(1.00)	ND(1.00)	ND(5.00)
Thallium	NA	NA	NA	ND(0.0130)
Tin	NA	NA	NA	ND(0.300)
Vanadium	NA	NA	NA	ND(0.0600)
Zinc	NA	NA	NA	ND(0.0260)
Inorganics-Filtered				
Antimony	ND(0.0400)	ND(0.0400)	ND(0.0400)	NA
Arsenic	ND(0.0100) J	ND(0.0100) J	ND(0.0100)	NA
Barium	ND(0.500) J	0.00684 B	ND(0.500)	NA
Beryllium	0.000970 J	ND(0.0100)	0.00366 J	NA
Cadmium	ND(0.00500) J	ND(0.0100)	ND(0.00500)	NA
Chromium	ND(0.0100)	ND(0.0100)	ND(0.0100)	NA
Cobalt	ND(0.0100) J	ND(0.0100)	ND(0.0100)	NA
Copper	ND(0.200) J	ND(0.0100) J	ND(0.200)	NA
Mercury	ND(0.000285)	ND(0.000285)	ND(0.000570)	NA
Nickel	ND(0.0500) J	ND(0.0100)	ND(0.0500)	NA
Selenium	ND(0.0200) J	ND(0.0200)	ND(0.0200)	NA
Silver	ND(0.0100)	ND(0.0100)	ND(0.0100)	NA
Thallium	ND(0.0100) J	ND(0.0100) J	ND(0.0100) J	NA
Tin	ND(0.100)	0.00108 J	0.00939 J	NA NA
Vanadium	ND(0.0500) J	ND(0.0500)	ND(0.0500)	NA
Zinc	0.00328 B	ND(0.0200)	0.0196 B	NA

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-7	OPCA-MW-7	OPCA-MW-7	OPCA-MW-7
	ate Collected:	05/01/01	11/08/06	04/19/07	10/11-10/18/2007
Volatile Organics			1		1 15/2 22/2)
1,1,1-Trichloroeth		ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,1-Dichloroethan	е	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Acetone		ND(0.010)	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene		ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Bromoform		ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010) J
Chlorobenzene		ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Chloroform Chloromethane		ND(0.0050) ND(0.0050)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)	ND(0.0010) ND(0.0010)
Tetrachloroethene	_				
Toluene	,	ND(0.0020) ND(0.0050)	ND(0.0010) 0.00022 J	ND(0.0010) ND(0.0010)	ND(0.0010) 0.00029 J
Trichloroethene		ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Trichlorofluorome	thane	ND(0.0050)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Vinyl Chloride	liane	ND(0.0020)	ND(0.0010)	ND(0.0010)	ND(0.0010)
Total VOCs		ND(0.20)	0.00022 J	ND(0.10)	0.00029 J
PCBs-Unfiltered	l	ND(0.20)	0.00022 3	ND(0.10)	0.00029 3
Aroclor-1254		ND(0.000065)	NA	NA	NA
Aroclor-1260		ND(0.000065)	NA NA	NA NA	NA NA
Total PCBs		ND(0.000065)	NA NA	NA NA	NA NA
PCBs-Filtered	ı	ND(0:000003)	INA	INA	INA
Aroclor-1254	1	ND(0.000065)	ND(0.00011)	ND(0.00010)	0.0012
Aroclor-1260		ND(0.000065)	ND(0.00011)	ND(0.00010)	0.00012
Total PCBs		ND(0.000065)	ND(0.00011)	ND(0.00010)	0.00091
Semivolatile Org	anice	ND(0.000003)	145(0.00011)	14D(0.00010)	0.00211
3,3'-Dichlorobenz		ND(0.020)	ND(0.020) J	ND(0.020)	ND(0.020)
Acenaphthene	idirie	ND(0.020)	ND(0.020) 3 ND(0.010)	ND(0.020) ND(0.010)	ND(0.020) ND(0.010)
bis(2-Ethylhexyl)p	htholoto	ND(0.010)	ND(0.010) ND(0.010)	ND(0.010) ND(0.010)	ND(0.010)
Dibenzofuran	ritialate	ND(0.0000)	ND(0.010) ND(0.010)	ND(0.010)	ND(0.010)
Dimethylphthalate	,	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	;	ND(0.010)	ND(0.010) ND(0.010) J	ND(0.010)	ND(0.010)
Furans		142(0.010)	142(0.010) 0	142(0.010)	142 (0.010)
2,3,7,8-TCDF		ND(0.000000014)	0.0000000029 J	ND(0.0000000019)	ND(0.000000035)
TCDFs (total)		ND(0.0000000014)	0.0000000037	ND(0.0000000019)	ND(0.000000035)
1,2,3,7,8-PeCDF		ND(0.0000000014)	0.000000037 0.0000000071 J	ND(0.0000000015)	ND(0.0000000054)
2,3,4,7,8-PeCDF		ND(0.0000000016)	0.00000000713	ND(0.0000000056)	ND(0.0000000054)
PeCDFs (total)		ND(0.0000000016)	0.000000027 G	ND(0.0000000056)	ND(0.0000000054)
1,2,3,4,7,8-HxCD	F	ND(0.0000000016)	0.00000013	0.0000000057 J	ND(0.0000000054)
1,2,3,6,7,8-HxCD		ND(0.00000000090)	0.00000015 0.000000052 J	ND(0.0000000056)	ND(0.000000054)
1,2,3,7,8,9-HxCD		ND(0.000000011)	0.000000023 J	ND(0.0000000056)	ND(0.000000054)
2,3,4,6,7,8-HxCD		ND(0.000000010)	0.000000027 J	ND(0.0000000056)	ND(0.000000054)
HxCDFs (total)		ND(0.000000016)	0.00000042	0.000000057 J	ND(0.000000054)
1,2,3,4,6,7,8-HpC	DF	ND(0.000000016)	0.00000091	ND(0.0000000056)	ND(0.000000054)
1,2,3,4,7,8,9-HpC		ND(0.0000000020)	0.00000058	ND(0.0000000056)	ND(0.000000054)
HpCDFs (total)		ND(0.000000018)	0.0000027	ND(0.0000000056)	ND(0.000000054)
OCDF		ND(0.000000038)	0.0000014	ND(0.00000011)	ND(0.00000011)
Dioxins	•			-	
2,3,7,8-TCDD		ND(0.0000000020)	ND(0.000000016)	ND(0.0000000019)	ND(0.000000045)
TCDDs (total)		ND(0.0000000020)	0.0000000085 J	ND(0.000000019)	ND(0.000000045)
1,2,3,7,8-PeCDD		ND(0.0000000021)	ND(0.000000057)	ND(0.0000000056)	ND(0.000000054)
PeCDDs (total)		ND(0.0000000021)	0.0000000087 JQ	ND(0.0000000056)	ND(0.000000054)
1,2,3,4,7,8-HxCD	D	ND(0.000000017)	ND(0.000000057)	ND(0.000000056)	ND(0.000000054)
1,2,3,6,7,8-HxCD	D	ND(0.000000017)	0.0000000066 J	ND(0.000000056)	ND(0.000000054)
1,2,3,7,8,9-HxCD		ND(0.000000016)	ND(0.000000057)	ND(0.000000056)	ND(0.000000054)
HxCDDs (total)		ND(0.000000010) X	0.00000055 J	ND(0.000000056)	ND(0.000000054)
1,2,3,4,6,7,8-HpC	DD	ND(0.000000030)	0.00000040 J	ND(0.000000056)	ND(0.000000054)
HpCDDs (total)		ND(0.000000030)	0.00000080	ND(0.000000056)	ND(0.000000054)
OCDD		ND(0.0000000048)	0.00000026	0.00000016 J	0.00000015 J
Total TEQs (WHO) TFFe)	0.000000031	0.00000044	0.000000078	0.000000086

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-7	OPCA-MW-7	OPCA-MW-7	OPCA-MW-7		
	e Collected:	05/01/01	11/08/06	04/19/07	10/11-10/18/2007		
Inorganics-Unfilter	norganics-Unfiltered						
Antimony		ND(0.0600)	NA	NA	NA		
Arsenic		ND(0.0100)	NA	NA	NA		
Barium		0.0600 B	NA	NA	NA		
Beryllium		ND(0.00100)	NA	NA	NA		
Cadmium		ND(0.00500)	NA	NA	NA		
Chromium		ND(0.0100)	NA	NA	NA		
Cobalt		ND(0.0500)	NA	NA	NA		
Copper		0.00790 J	NA	NA	NA		
Mercury		ND(0.000200)	NA	NA	NA		
Nickel		ND(0.0400)	NA	NA	NA		
Selenium		ND(0.00500) J	NA	NA	NA		
Silver		ND(0.00500)	NA	NA	NA		
Sulfide		ND(5.00)	ND(1.00)	ND(1.00)	ND(1.00) J		
Thallium		ND(0.0100) J	NA	NA	NA		
Tin		ND(0.100)	NA	NA	NA		
Vanadium		ND(0.0500)	NA	NA	NA		
Zinc		0.0200 B	NA	NA	NA		
Inorganics-Filtered							
Antimony		ND(0.0600)	ND(0.0400)	ND(0.0400)	ND(0.0400)		
Arsenic		ND(0.0100)	ND(0.0100) J	ND(0.0100)	ND(0.0100)		
Barium		0.0570 J	ND(0.500) J	ND(0.0100)	0.0869 B		
Beryllium		ND(0.00100)	0.00363 J	ND(0.0100) J	ND(0.0100) J		
Cadmium		ND(0.00500)	ND(0.00500) J	ND(0.0100) J	ND(0.00500)		
Chromium		ND(0.0100)	ND(0.0100)	ND(0.0100) J	ND(0.0100)		
Cobalt		ND(0.0500)	ND(0.0100) J	ND(0.0100) J	ND(0.0100)		
Copper		0.00730 J	ND(0.200) J	ND(0.0100) J	ND(0.0100) J		
Mercury		ND(0.000200)	ND(0.000285)	ND(0.000285)	ND(0.000285)		
Nickel		ND(0.0400)	ND(0.0500) J	ND(0.0100) J	ND(0.0100)		
Selenium		ND(0.00500) J	ND(0.0200) J	0.00889 B	ND(0.0200)		
Silver		ND(0.00500)	ND(0.0100)	ND(0.0100)	ND(0.0100)		
Thallium		ND(0.0100) J	ND(0.0100) J	ND(0.0100)	ND(0.0100) J		
Tin		ND(0.100)	ND(0.100)	ND(0.0100) J	ND(0.100) J		
Vanadium		ND(0.0500)	ND(0.0500) J	0.00657 B	ND(0.0500)		
Zinc		0.0200 B	0.00700 B	0.0400	0.0208		

Table B-1 OPCA Monitoring Program

Arcolar-1260	B	Sample ID:	OPCA-MW-8	OPCA-MW-8	OPCA-MW-8
1.1,1-Tichioroethane			06/14/99	05/01/01	11/08/06
1.1-Dichioroethane				1	15(2.22(2)
Acetone ND(0.101) ND(0.0050] ND(0.00					
Benzene	,	hane	()		
Bromoform ND[0.0950] ND[0.0050] ND[0.0050] ND[0.0050] ND[0.0010]					(/
Chloroberazene					
ND(0.00501 ND(0.0050) ND(0.0050) ND(0.0050) ND(0.0010)			(/		
ND(0.010) ND(0.0050) ND(0.0050) ND(0.0010) ND(0.010) ND(0.010) ND(0.0010) ND(0.0010) ND(0.0050) ND(0.0		е			
Tetrachiorethene					
Toluene					` '
Trichloroelthene		iene			
Trichlorofluoromethane			(/		
Viry Chloride					
Total VOCs		methane			
PCBs-Unfiltered					
Ancolor-1254			ND(0.20)	ND(0.20) [ND(0.20)]	0.00037 J
Ancolon-1260 ND(0.00010) ND(0.000065) ND(0.000065) NA		red		1	
Total PCBs	Aroclor-1254		ND(0.00010)		
PCBs-Filtered					
Aroclor-1254			ND(0.00010)	ND(0.000065) [ND(0.000065)]	NA
Ancolor 1260		1			
Total PCBs	Aroclor-1254			ND(0.000065) [ND(0.000065)]	
Semivolatile Organics ND(0.051) ND(0.020) [ND(0.020)] ND(0.020) J ND(0.020) J ND(0.010) ND(0	Aroclor-1260				
3,3'-Dichlorobenzidine			NA	ND(0.000065) [ND(0.000065)]	ND(0.00011)
Acenaphthene ND(0.010) ND(0.010) ND(0.010) ND(0.010) ND(0.010)	Semivolatile (Organics			
bis(2-Ethylhexyl)phthalate ND(0.010) ND(0.060) [ND(0.060)] ND(0.010) Dibenzofuran ND(0.010) ND(0.010) [ND(0.010)] ND(0.010) Dimethylphthalate ND(0.010) ND(0.010) [ND(0.010)] ND(0.010) Naphthalene ND(0.010) ND(0.010) [ND(0.010)] ND(0.010) J Furans 2.37,8-TCDF ND(0.0000000070) ND(0.000000001) [ND(0.0000000018) X] ND(0.0000000011) TCDFs (total) ND(0.0000000070) ND(0.000000001) [ND(0.0000000023) X] ND(0.0000000011) 1,2,3,7.8-PeCDF ND(0.0000000029) ND(0.000000028) [ND(0.000000026)] ND(0.0000000055) 2,3,4,7.8-PeCDF ND(0.000000029) ND(0.000000028) [ND(0.000000040] ND(0.000000055) PeCDFs (total) ND(0.000000029) ND(0.0000000038) [0.00000040] ND(0.000000055) 1,2,3,6,7.8-HxCDF ND(0.000000097) ND(0.0000000041) [ND(0.000000045] ND(0.000000055) 1,2,3,6,7.8-HxCDF ND(0.000000097) ND(0.0000000041) [ND(0.000000045] ND(0.000000055) 1,2,3,6,7.8-HxCDF ND(0.000000094) ND(0.0000000031) [ND(0.000000028] ND(0.000000055) 1,2,3,7,8,9-HxCDF ND(0.0000000010) [3,3'-Dichlorobe	enzidine	ND(0.051)	ND(0.020) [ND(0.020)]	ND(0.020) J
Dibenzofuran	Acenaphthene)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Dimethylphthalate	bis(2-Ethylhex	yl)phthalate	ND(0.010)	ND(0.0060) [ND(0.0060)]	ND(0.010)
ND(0.010) ND(0.000000018) ND(0.0000000011) ND(0.0000000018) ND(0.0000000011) ND(0.0000000012) ND(0.0000000011) ND(0.0000000012) ND(0.0000000011) ND(0.0000000012) ND(0.0000000011) ND(0.0000000011) ND(0.0000000012) ND(0.0000000011) ND(0.00000000012) ND(0.00000000000000000000000000000000000	Dibenzofuran		ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Furans	Dimethylphtha	late			ND(0.010)
2,3,7,8-TCDF	Naphthalene		ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010) J
TCDFs (total)	Furans				
TCDFs (total)	2,3,7,8-TCDF		ND(0.00000000070)	ND(0.0000000010) [ND(0.0000000018) X]	ND(0.000000011)
2,3,4,7,8-PeCDF ND(0.000000027) ND(0.0000000034 J] ND(0.000000055)	TCDFs (total)		ND(0.00000000070)	ND(0.000000010) [ND(0.000000032) X]	
PeCDFs (total) ND(0.000000029) ND(0.0000000040] ND(0.000000055) 1,2,3,4,7,8-HxCDF ND(0.000000097) ND(0.0000000014) [ND(0.0000000045] ND(0.0000000055) 1,2,3,6,7,8-HxCDF ND(0.000000099) ND(0.00000000070) [ND(0.0000000028)] ND(0.0000000055) 1,2,3,7,8,9-HxCDF ND(0.000000094) ND(0.0000000090) [0.0000000018 JB] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.00000000090) [0.0000000018 JB] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.00000000080) [ND(0.0000000023)] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.000000014) [0.000000025] ND(0.000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000022) ND(0.000000014) [0.000000036) ND(0.000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.000000016) [0.000000040 JB] ND(0.000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.0000000016) [0.0000000040 JB] ND(0.0000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) 1,2,3,7,8-PCDD ND(0.000000025) ND(0.0000000014) [0.0000000055] ND(0.0000000014) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.000000012) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.000000016) [ND(0.0000000014)] ND(0.0000000055) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.000000016) [ND(0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000011) ND(0.000000012) ND(0.0000000015) ND(0.00000000000000000000000000000000000	1,2,3,7,8-PeCl	DF	ND(0.000000029)	ND(0.0000000028) [ND(0.000000026)]	ND(0.000000055)
PeCDFs (total) ND(0.000000029) ND(0.0000000040] ND(0.000000055) 1,2,3,4,7,8-HxCDF ND(0.000000097) ND(0.0000000014) [ND(0.0000000045] ND(0.0000000055) 1,2,3,6,7,8-HxCDF ND(0.000000099) ND(0.00000000070) [ND(0.0000000028)] ND(0.0000000055) 1,2,3,7,8,9-HxCDF ND(0.000000094) ND(0.0000000090) [0.0000000018 JB] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.00000000090) [0.0000000018 JB] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.00000000080) [ND(0.0000000023)] ND(0.0000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.000000014) [0.000000025] ND(0.000000055) 1,2,3,4,6,7,8-HxCDF ND(0.000000022) ND(0.000000014) [0.000000036) ND(0.000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.000000016) [0.000000040 JB] ND(0.000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.0000000016) [0.0000000040 JB] ND(0.0000000055) 1,2,3,4,7,8,9-HyCDF ND(0.000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) 1,2,3,7,8-PCDD ND(0.000000025) ND(0.0000000014) [0.0000000055] ND(0.0000000014) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.000000012) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.000000016) [ND(0.0000000014)] ND(0.0000000055) 1,2,3,7,8-PCDD ND(0.000000011) ND(0.000000016) [ND(0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000011) ND(0.000000012) ND(0.0000000015) ND(0.00000000000000000000000000000000000	2,3,4,7,8-PeCl	DF	ND(0.000000027)	ND(0.0000000011) [0.0000000034 J]	ND(0.000000055)
1,2,3,6,7,8-HxCDF			ND(0.000000029)		ND(0.000000055)
ND(0.000000094) ND(0.0000000096) [0.000000018 JB] ND(0.0000000055)	1,2,3,4,7,8-Hx	CDF	ND(0.000000097)	ND(0.000000014) [ND(0.000000045)]	ND(0.000000055)
2,3,4,6,7,8-HxCDF ND(0.000000010) ND(0.0000000008) [ND(0.0000000023]] ND(0.0000000055) HxCDFs (total) ND(0.000000010) ND(0.0000000014) [0.000000025] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDF ND(0.0000000022) ND(0.0000000013) [ND(0.0000000040 JB] ND(0.0000000055) 1,2,3,4,7,8,9-HpCDF ND(0.000000022) ND(0.0000000016) [0.0000000040 JB] ND(0.0000000055) HpCDFs (total) ND(0.000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) OCDF ND(0.000000025) ND(0.0000000031) [0.0000000095 J] ND(0.0000000011) Dioxins 2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.0000000040] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [ND(0.0000000040] ND(0.000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) [ND(0.0000000013) [ND(0.0000000024)] ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) [ND(0.0000000012) [ND(0.0000000038)] ND(0.000000055)	1,2,3,6,7,8-Hx	CDF	ND(0.000000099)	ND(0.00000000070) [ND(0.0000000028)]	ND(0.000000055)
HxCDFs (total) ND(0.000000010) ND(0.0000000014) [0.000000025] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDF ND(0.000000022) ND(0.0000000013) [ND(0.000000036) XB] ND(0.0000000055) 1,2,3,4,7,8,9-HpCDF ND(0.000000022) ND(0.0000000016) [0.0000000040 JB] ND(0.0000000055) ND(0.000000022) ND(0.0000000014) [0.0000000040 JB] ND(0.0000000055) ND(0.000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) ND(0.0000000055) ND(0.0000000014) [0.0000000058] ND(0.0000000011) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.00000000040]] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) ND(0.0000000013) [ND(0.0000000040] ND(0.0000000055) 1,2,3,7,8-HxCDD ND(0.000000016) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000055) ND(0.000000015) ND(0.000000016) ND(0.0000000018) ND(0.0000000018) ND(0.0000000055) ND(0.000000015) ND(0.000000016) ND(0.0000000018) ND(0.0000000018) ND(0.0000000055) ND(0.000000015) ND(0.000000016) ND(0.0000000018) ND(0.0000000018) ND(0.0000000055) ND(0.0000000055) ND(0.0000000012) ND(0.0000000012) ND(0.0000000055) ND(0.0000000055) ND(0.0000000014) ND(0.0000000014) ND(0.00000000055) ND(0.00000000000000000000000000000000000	1,2,3,7,8,9-Hx	CDF	ND(0.000000094)	ND(0.00000000090) [0.0000000018 JB]	ND(0.000000055)
1,2,3,4,6,7,8-HpCDF ND(0.000000022) ND(0.0000000013) [ND(0.000000036) XB] ND(0.0000000055) 1,2,3,4,7,8,9-HpCDF ND(0.000000022) ND(0.0000000016) [0.000000040 JB] ND(0.0000000055) HpCDFs (total) ND(0.0000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) OCDF ND(0.0000000025) ND(0.0000000031) [0.000000095 J] ND(0.0000000011) Dioxins 2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) PeCDbs (total) ND(0.000000011) ND(0.000000016) [ND(0.000000040)] ND(0.0000000055) PeCDbs (total) ND(0.000000011) ND(0.000000016) [0.000000040] ND(0.000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) [ND(0.000000004)] ND(0.000000055) ND(0.0000000012) [ND(0.0000000014) 1,2,3,6,7,8-HxCDD ND(0.000000014) [ND(0.0000000012) [ND(0.0000000038)] ND(0.0000000055) ND(0.0000000012) [ND(0.0000000012) [ND(0.0000000012) [ND(0.0000000055) HxCDbs (total) ND(0.000000014) [ND(0.0000000012) [ND(0.0000000081)] ND(0.0000000055) [ND(0.0000000012] [ND(0.0000000012] ND(0.0000000055) [ND(0.0000000012] <td>2,3,4,6,7,8-Hx</td> <td>CDF</td> <td>ND(0.00000010)</td> <td>ND(0.00000000080) [ND(0.0000000023)]</td> <td>ND(0.000000055)</td>	2,3,4,6,7,8-Hx	CDF	ND(0.00000010)	ND(0.00000000080) [ND(0.0000000023)]	ND(0.000000055)
1,2,3,4,7,8,9-HpCDF ND(0.000000022) ND(0.0000000016) [0.000000040 JB] ND(0.0000000055) HpCDFs (total) ND(0.0000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) OCDF ND(0.0000000025) ND(0.0000000031) [0.0000000095 J] ND(0.0000000011) Dioxins Dioxins ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.0000000011) ND(0.0000000016) [ND(0.0000000040] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) [ND(0.000000004] [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000014) [ND(0.0000000013) [ND(0.0000000019) XB] [ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) [ND(0.0000000012) [ND(0.0000000038)] [ND(0.0000000055) [ND(0.00000000055) ND(0.00000000055) [ND(0.00000000081)] [ND(0.0000000081)] [ND(0.00000000055) [ND(0.00000000012) [ND(0.00000000081)] [ND(0.00000000055) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000000000000000000000000000000	HxCDFs (total)	ND(0.00000010)	ND(0.000000014) [0.000000025]	ND(0.000000055)
1,2,3,4,7,8,9-HpCDF ND(0.000000022) ND(0.0000000016) [0.000000040 JB] ND(0.0000000055) HpCDFs (total) ND(0.0000000022) ND(0.0000000014) [0.0000000058] ND(0.0000000055) OCDF ND(0.0000000025) ND(0.0000000031) [0.0000000095 J] ND(0.0000000011) Dioxins Dioxins ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.0000000011) ND(0.0000000016) [ND(0.0000000040] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) [ND(0.000000004] [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000014) [ND(0.0000000013) [ND(0.0000000019) XB] [ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) [ND(0.0000000012) [ND(0.0000000038)] [ND(0.0000000055) [ND(0.00000000055) ND(0.00000000055) [ND(0.00000000081)] [ND(0.0000000081)] [ND(0.00000000055) [ND(0.00000000012) [ND(0.00000000081)] [ND(0.00000000055) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000012) [ND(0.00000000000000000000000000000000000					ND(0.0000000055)
OCDF ND(0.000000025) ND(0.000000031) [0.0000000095 J] ND(0.000000011) Dioxins 2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.0000000040)] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) ND(0.0000000013) [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000016) ND(0.0000000013) [ND(0.0000000019) XB] ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) ND(0.0000000012) [ND(0.0000000038)] ND(0.0000000055) HxCDDs (total) ND(0.0000000016) ND(0.0000000012) [0.0000000062] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDD ND(0.000000030) ND(0.0000000014) X [0.0000000081] ND(0.0000000055) HpCDDs (total) ND(0.000000037) ND(0.0000000014) X [0.0000000043] ND(0.0000000012) OCDD ND(0.0000000037) ND(0.00000000051) XB [ND(0.0000000043)] 0.000000012	1,2,3,4,7,8,9-H	lpCDF	ND(0.000000022)	ND(0.0000000016) [0.0000000040 JB]	ND(0.000000055)
Dioxins 2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.000000040)] ND(0.0000000055) PeCDDs (total) ND(0.000000011) ND(0.0000000016) [0.000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) ND(0.0000000013) [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000016) ND(0.0000000013) [ND(0.0000000019) XB] ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) ND(0.0000000012) [ND(0.0000000038)] ND(0.0000000055) HxCDDs (total) ND(0.000000016) ND(0.000000012) [0.0000000062] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDD ND(0.000000030) ND(0.0000000024) [ND(0.0000000081)] ND(0.0000000055) HpCDDs (total) ND(0.000000030) ND(0.0000000014) X [0.0000000012] ND(0.0000000055) OCDD ND(0.000000037) ND(0.0000000051) XB [ND(0.0000000043)] 0.000000012 J	HpCDFs (total)	ND(0.000000022)	ND(0.0000000014) [0.0000000058]	ND(0.000000055)
2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.0000000040)] ND(0.0000000055) PeCDDs (total) ND(0.0000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) ND(0.0000000013) [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000016) ND(0.000000013) [ND(0.0000000019) XB] ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) ND(0.0000000012) [ND(0.0000000038)] ND(0.0000000055) HxCDDs (total) ND(0.0000000016) ND(0.0000000012) [0.0000000062] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDD ND(0.0000000030) ND(0.0000000024) [ND(0.0000000081)] ND(0.0000000055) HpCDDs (total) ND(0.000000037) ND(0.0000000051) XB [ND(0.0000000043)] 0.000000012 J	OCDF		ND(0.000000025)	ND(0.0000000031) [0.0000000095 J]	ND(0.00000011)
2,3,7,8-TCDD ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) TCDDs (total) ND(0.0000000011) ND(0.0000000013) [ND(0.0000000014)] ND(0.0000000012) 1,2,3,7,8-PeCDD ND(0.000000011) ND(0.0000000016) [ND(0.0000000040)] ND(0.0000000055) PeCDDs (total) ND(0.0000000011) ND(0.0000000016) [0.0000000040] ND(0.0000000055) 1,2,3,4,7,8-HxCDD ND(0.000000013) ND(0.0000000013) [ND(0.0000000024)] ND(0.0000000055) 1,2,3,6,7,8-HxCDD ND(0.000000016) ND(0.000000013) [ND(0.0000000019) XB] ND(0.0000000055) 1,2,3,7,8,9-HxCDD ND(0.000000014) ND(0.0000000012) [ND(0.0000000038)] ND(0.0000000055) HxCDDs (total) ND(0.0000000016) ND(0.0000000012) [0.0000000062] ND(0.0000000055) 1,2,3,4,6,7,8-HpCDD ND(0.0000000030) ND(0.0000000024) [ND(0.0000000081)] ND(0.0000000055) HpCDDs (total) ND(0.000000037) ND(0.0000000051) XB [ND(0.0000000043)] 0.000000012 J	Dioxins	•	-		· · · · · · · · · · · · · · · · · · ·
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HpCDDs (total) ND(0.000000030) ND(0.0000000014) X [0.0000000012] ND(0.0000000055) OCDD ND(0.000000037) ND(0.0000000051) XB [ND(0.000000043)] 0.000000012 J			,		
OCDD ND(0.000000037) ND(0.0000000051) XB [ND(0.000000043)] 0.000000012 J					, ,
		,		, , , , ,	(
		/HO TEFs)			

Table B-1 OPCA Monitoring Program

Sample ID: Parameter Date Collected:	OPCA-MW-8 06/14/99	OPCA-MW-8 05/01/01	OPCA-MW-8 11/08/06
Inorganics-Unfiltered			•
Antimony	ND(0.0600)	ND(0.0600) [ND(0.0600)]	NA
Arsenic	ND(0.00600)	ND(0.0100) J [ND(0.0100) J]	NA
Barium	0.0860	0.0290 B [0.0300 B]	NA
Beryllium	ND(0.00600)	ND(0.00100) [ND(0.00100)]	NA
Cadmium	ND(0.00600)	ND(0.00500) [ND(0.00500)]	NA
Chromium	ND(0.0130)	0.00600 B [0.00520 B]	NA
Cobalt	ND(0.0600)	ND(0.0500) [ND(0.0500)]	NA
Copper	ND(0.0330)	ND(0.0250) [ND(0.0250)]	NA
Mercury	ND(0.000500)	ND(0.000200) [ND(0.000200)]	NA
Nickel	ND(0.0600)	ND(0.0400) [ND(0.0400)]	NA
Selenium	ND(0.00600) J	ND(0.00500) [ND(0.00500)]	NA
Silver	ND(0.0130)	ND(0.00500) [ND(0.00500)]	NA
Sulfide	ND(5.00)	ND(5.00) [ND(5.00)]	ND(1.00)
Thallium	ND(0.0130)	ND(0.0100) J [ND(0.0100) J]	NA
Tin	ND(0.300)	ND(0.100) [ND(0.100)]	NA
Vanadium	ND(0.0600)	ND(0.0500) [ND(0.0500)]	NA
Zinc	ND(0.0260)	0.0970 [0.120]	NA
Inorganics-Filtered			
Antimony	NA	ND(0.0600) [ND(0.0600)]	ND(0.0400)
Arsenic	NA	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J
Barium	NA	0.0280 J [0.0280 J]	ND(0.500) J
Beryllium	NA	ND(0.00100) [ND(0.00100)]	ND(0.0100) J
Cadmium	NA	ND(0.00500) [ND(0.00500)]	ND(0.00500) J
Chromium	NA	0.00290 B [0.00370 B]	ND(0.0100)
Cobalt	NA	ND(0.0500) [ND(0.0500)]	ND(0.0100) J
Copper	NA	ND(0.0250) [0.00420 B]	ND(0.200) J
Mercury	NA	ND(0.000200) [ND(0.000200)]	ND(0.000285)
Nickel	NA	ND(0.0400) [0.00410 B]	ND(0.0500) J
Selenium	NA	ND(0.00500) [ND(0.00500)]	ND(0.0200) J
Silver	NA	ND(0.00500) [ND(0.00500)]	ND(0.0100)
Thallium	NA	ND(0.0100) J [ND(0.0100) J]	0.00717 J
Tin	NA	ND(0.100) [ND(0.100)]	ND(0.100)
Vanadium	NA	ND(0.0500) [ND(0.0500)]	ND(0.0500) J
Zinc	NA	0.0540 [0.0560]	0.00819 B

Table B-1 OPCA Monitoring Program

	Sample ID:	OPCA-MW-8	OPCA-MW-8			
Parameter	Date Collected:	04/17/07	10/11/07			
Volatile Orga	/olatile Organics					
1,1,1-Trichloroethane		ND(0.0010)	ND(0.0010)			
1,1-Dichloroet	thane	ND(0.0010)	ND(0.0010)			
Acetone		ND(0.0050)	ND(0.0050) J			
Benzene		ND(0.0010)	ND(0.0010)			
Bromoform		ND(0.0010)	ND(0.0010) J			
Chlorobenzen	e	ND(0.0010)	ND(0.0010)			
Chloroform		ND(0.0010)	ND(0.0010)			
Chloromethar		ND(0.0010)	ND(0.0010)			
Tetrachloroeth	nene	ND(0.0010)	ND(0.0010)			
Toluene		0.011	ND(0.0010)			
Trichloroether		ND(0.0010)	ND(0.0010)			
Trichlorofluoro		ND(0.0010)	ND(0.0010)			
Vinyl Chloride	!	ND(0.0010)	ND(0.0010)			
Total VOCs		0.011	ND(0.10)			
PCBs-Unfilte	red		1			
Aroclor-1254		NA NA	NA NA			
Aroclor-1260		NA NA	NA NA			
Total PCBs		NA	NA			
PCBs-Filtere	d					
Aroclor-1254		ND(0.00012)	ND(0.00010)			
Aroclor-1260		ND(0.00012)	ND(0.00010)			
Total PCBs	_	ND(0.00012)	ND(0.00010)			
Semivolatile			1			
3,3'-Dichlorob		ND(0.020)	ND(0.020)			
Acenaphthene		ND(0.010)	ND(0.010)			
bis(2-Ethylhe)	(yl)phthalate	ND(0.010)	0.0017 J			
Dibenzofuran		ND(0.010)	ND(0.010)			
Dimethylphtha	alate	ND(0.010)	ND(0.010)			
Naphthalene		ND(0.010)	ND(0.010)			
Furans		0.000000011	ND(0.000000000)			
2,3,7,8-TCDF		0.0000000014 J	ND(0.0000000026)			
TCDFs (total)	DE.	0.000000014 J	ND(0.0000000026)			
1,2,3,7,8-PeC		ND(0.0000000051)	ND(0.0000000050)			
2,3,4,7,8-PeC		ND(0.0000000051)	ND(0.0000000050)			
PeCDFs (tota		ND(0.0000000051) Q	ND(0.0000000050)			
1,2,3,4,7,8-Hx		ND(0.000000051) ND(0.000000051)	ND(0.0000000050)			
1,2,3,6,7,8-Hx 1,2,3,7,8,9-Hx		ND(0.0000000051)	ND(0.0000000050) ND(0.000000050)			
2,3,4,6,7,8-Hx		ND(0.0000000051)	ND(0.000000050)			
HxCDFs (tota		ND(0.0000000051)	ND(0.0000000050)			
1,2,3,4,6,7,8-1		ND(0.000000051)	ND(0.0000000050)			
1,2,3,4,7,8,9-1		ND(0.0000000051)	ND(0.0000000050)			
HpCDFs (tota		ND(0.0000000051)	ND(0.0000000050)			
OCDF	'/	ND(0.00000001)	ND(0.000000000)			
Dioxins		112 (0.0000000.0)	112 (0.000000000)			
2,3,7,8-TCDD		ND(0.000000015)	ND(0.000000032)			
TCDDs (total)		ND(0.0000000015)	ND(0.0000000032)			
1,2,3,7,8-PeC		ND(0.0000000013)	ND(0.0000000050)			
PeCDDs (tota		ND(0.0000000051)	ND(0.0000000050)			
1,2,3,4,7,8-Hx	,	ND(0.0000000051)	ND(0.0000000000)			
1,2,3,6,7,8-Hx		ND(0.0000000051)	ND(0.0000000000)			
1,2,3,7,8,9-HxCDD		ND(0.0000000051)	ND(0.0000000050)			
HxCDDs (total)		ND(0.0000000051)	ND(0.0000000050)			
1,2,3,4,6,7,8-1	,	0.00000000031)	ND(0.0000000059)			
HpCDDs (total)		0.0000000003 J	ND(0.0000000059)			
OCDD	,	0.0000000000 J	0.000000000000000000000000000000000000			
	VHO TEFs)	0.000000067	0.0000000075			
Total TEQs (WHO TEFs)		0.00000000	0.000000000			

Table B-1 OPCA Monitoring Program

Sample II Parameter Date Collecte		OPCA-MW-8 10/11/07			
Inorganics-Unfiltered					
Antimony	NA	NA			
Arsenic	NA	NA			
Barium	NA	NA			
Beryllium	NA	NA			
Cadmium	NA	NA			
Chromium	NA	NA			
Cobalt	NA	NA			
Copper	NA	NA			
Mercury	NA	NA			
Nickel	NA	NA			
Selenium	NA	NA			
Silver	NA	NA			
Sulfide	ND(1.00)	ND(1.00)			
Thallium	NA	NA			
Tin	NA	NA			
Vanadium	NA	NA			
Zinc	NA	NA			
Inorganics-Filtered					
Antimony	ND(0.0400)	ND(0.0400)			
Arsenic	ND(0.0100) J	ND(0.0100)			
Barium	0.00799 B	ND(0.100)			
Beryllium	ND(0.0100)	ND(0.0100) J			
Cadmium	ND(0.0100)	ND(0.00500)			
Chromium	ND(0.0100)	ND(0.0100)			
Cobalt	ND(0.0100)	ND(0.0100)			
Copper	ND(0.0100) J	ND(0.0100) J			
Mercury	ND(0.000285)	ND(0.000285)			
Nickel	ND(0.0100)	ND(0.0100)			
Selenium	ND(0.0200)	ND(0.0200)			
Silver	ND(0.0100)	ND(0.0100)			
Thallium	ND(0.0100) J	ND(0.0100) J			
Tin	0.004120 J	ND(0.100) J			
Vanadium	ND(0.0500)	ND(0.0500)			
Zinc	0.00294 B	0.00726 B			

Table B-1 OPCA Monitoring Program

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts (Results are presented in parts per million, ppm)

Notes:

- 1. Samples were collected by ARCADIS BBL, and submitted to SGS Environmental Services, Inc. and Northeast Analytical, Inc. for analysis of Appendix IX+3 constituents.
- Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (approved March 15, 2007 and re-submitted March 30, 2007).
- 3. NA Not Analyzed.
- 4. ND Analyte was not detected. The number in parentheses is the associated detection limit.
- 5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
- 6. Field duplicate sample results are presented in brackets.
- 7. -- Indicates that all constituents for the parameter group were not detected.
- 8. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, pesticides, herbicides, dioxin/furans)

- B Analyte was also detected in the associated method blank.
- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.
- Q Indicates the presence of quantitative interferences.
- X Estimated maximum possible concentration.

Inorganics

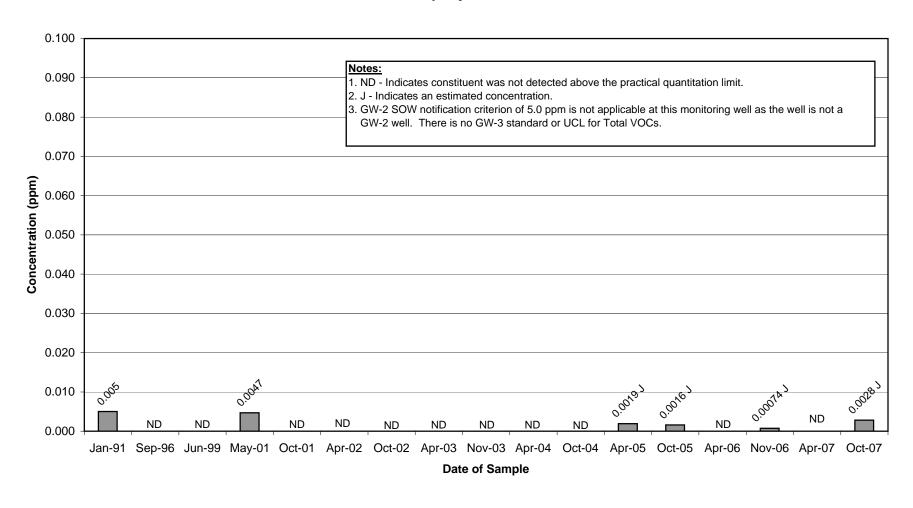
- B Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
- J Indicates that the associated numerical value is an estimated concentration.
- R Data was rejected due to a deficiency in the data generation process.

ARCADIS

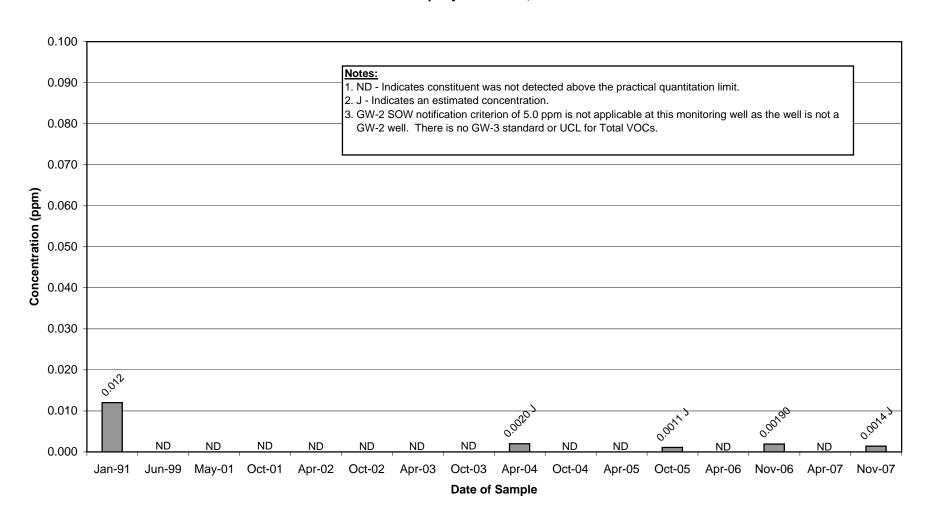
Historical Groundwater Data

Total VOC Concentrations – Wells Samples in Fall 2007

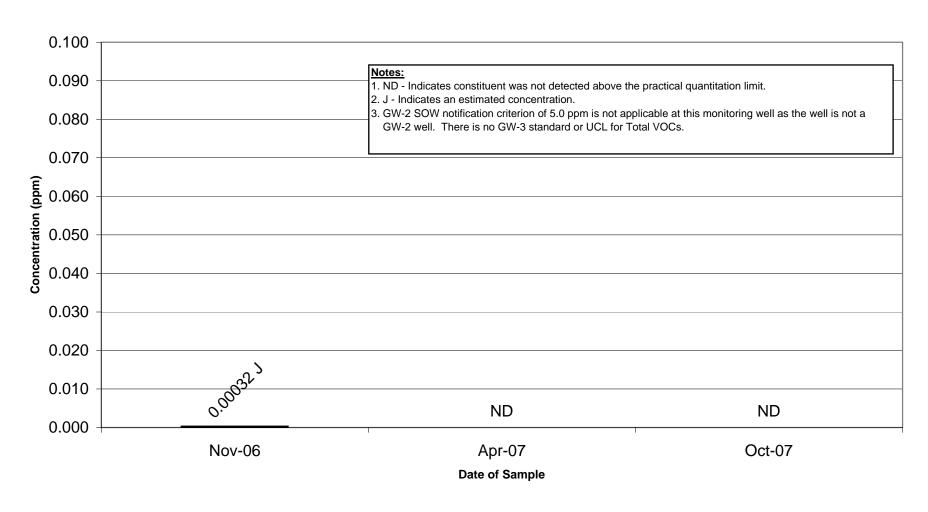
Appendix B Well 78-1 Historical Total VOC Concentrations



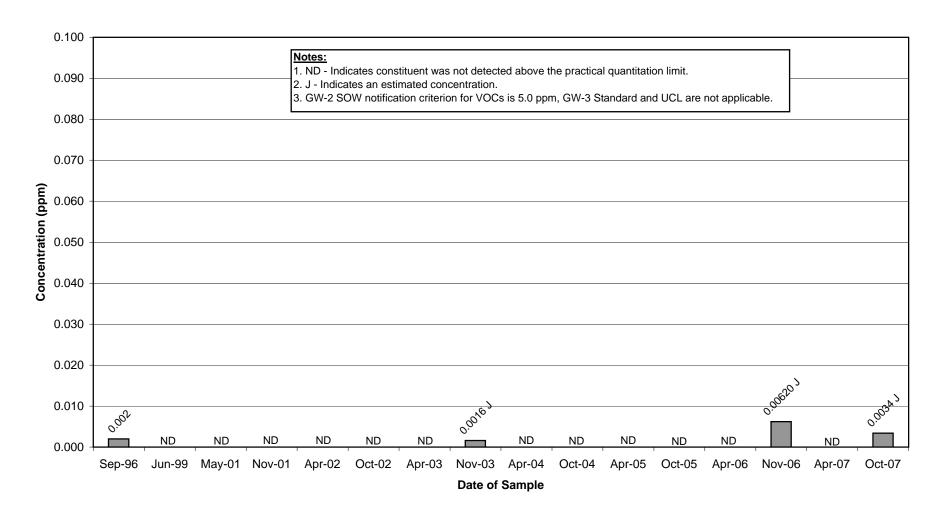
Appendix B Well 78-6 Historical Total VOC Concentrations



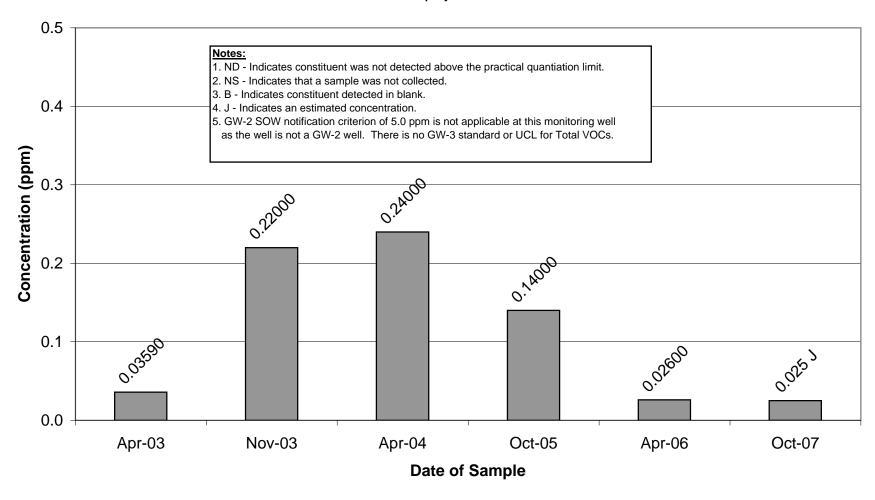
Appendix B Well GMA4-6 Historical Total VOC Concentrations



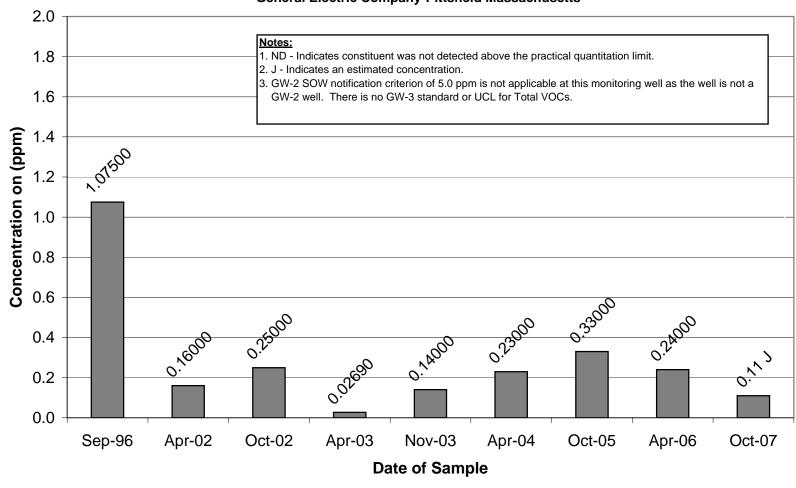
Appendix B Well H78B-15 Historical Total VOC Concentrations



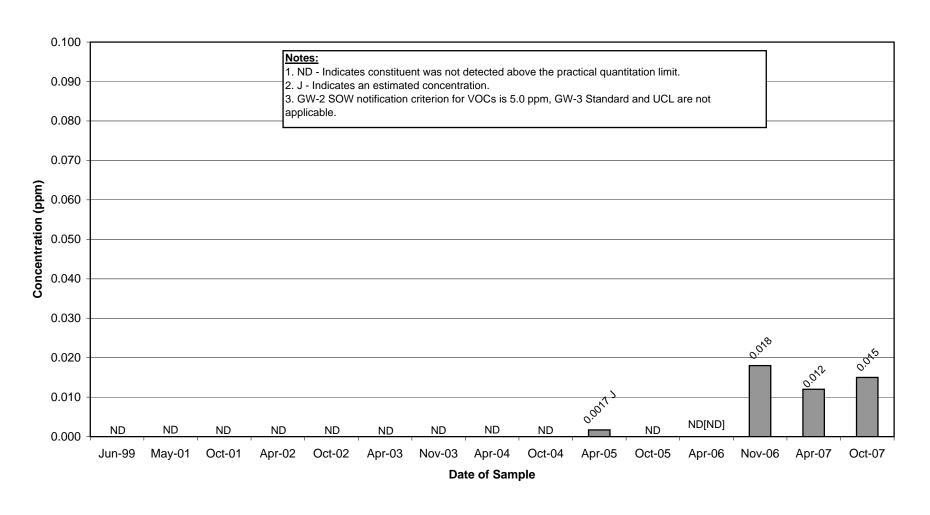
Appendix B Well H78B-16 Historical Total VOC Concentration



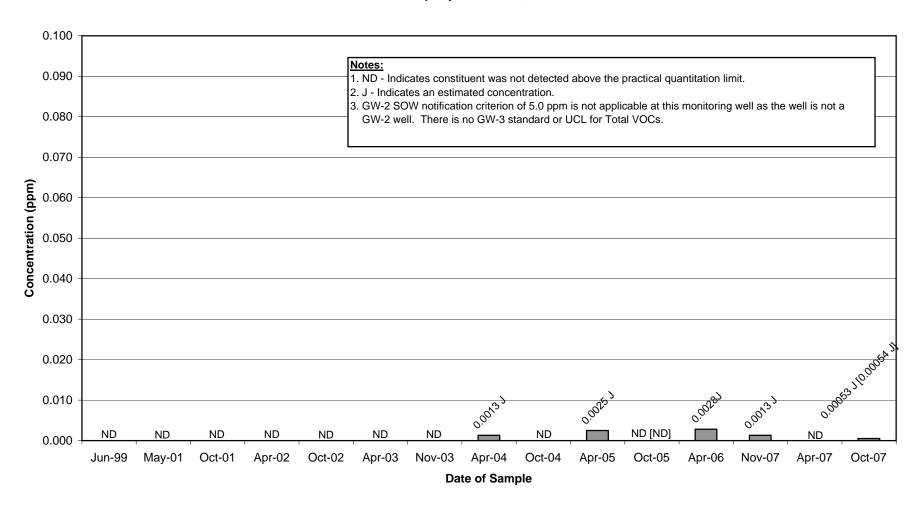
Appendix B Well H78B-17R Historical Total VOC Concentrations



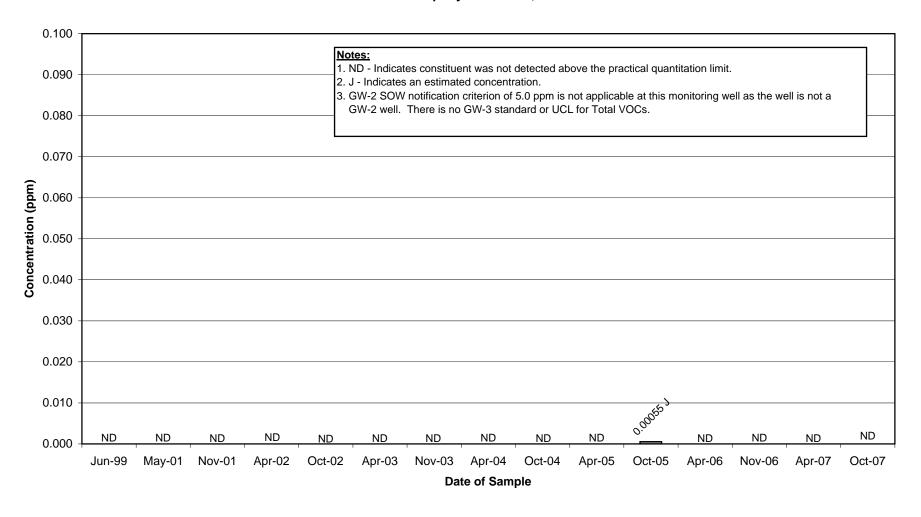
Appendix B Well OPCA-MW-1R Historical Total VOC Concentrations



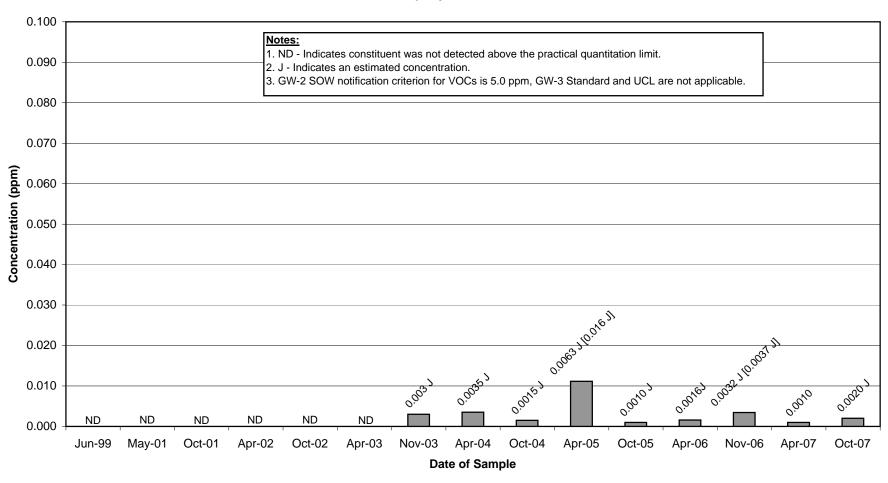
Appendix B Well OPCA-MW-2 Historical Total VOC Concentrations



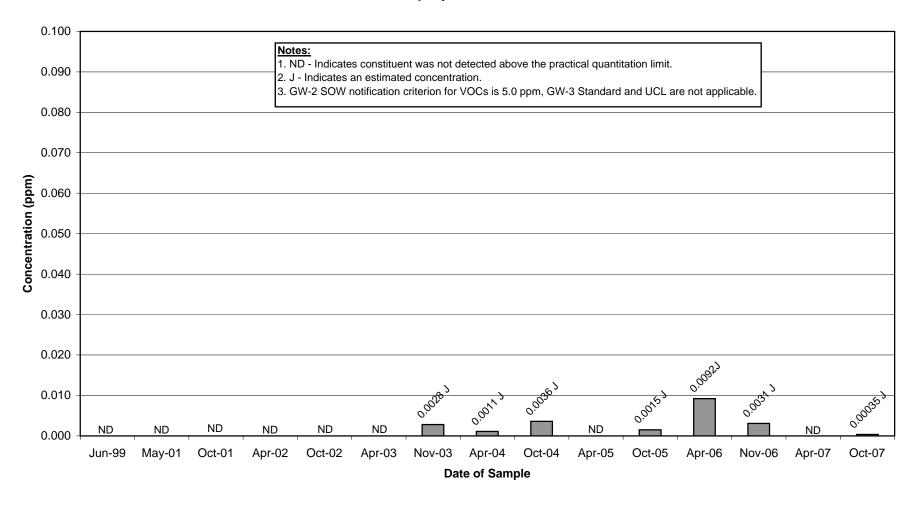
Appendix B Well OPCA-MW-3 Historical Total VOC Concentrations



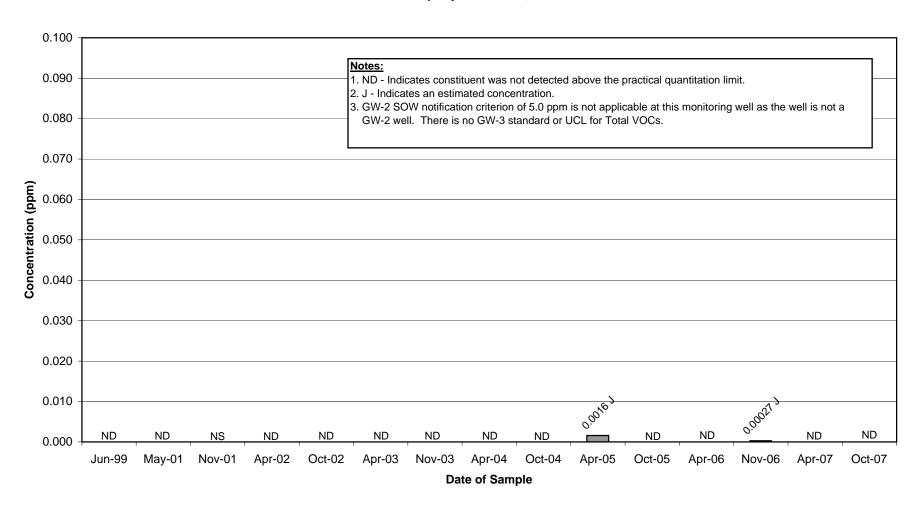
Appendix B Well OPCA-MW-4 Historical Total VOC Concentrations



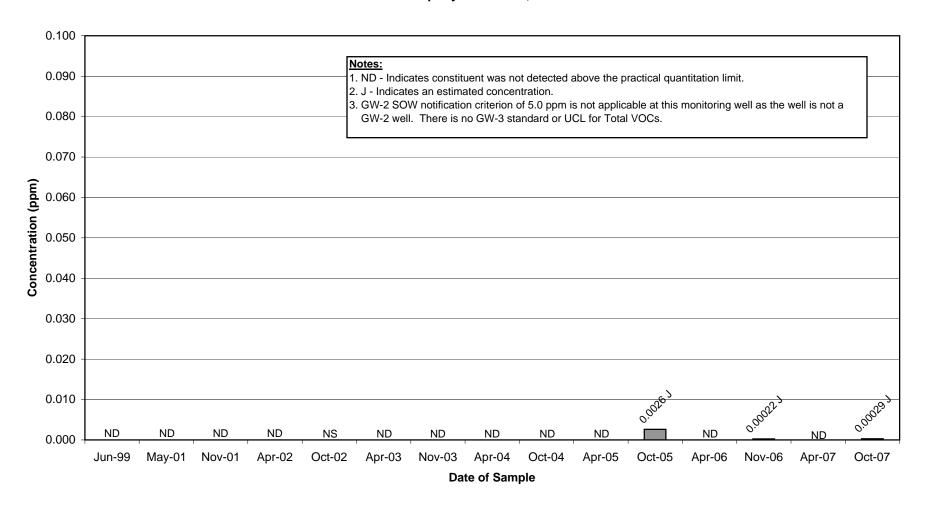
Appendix B Well OPCA-MW-5R Historical Total VOC Concentrations



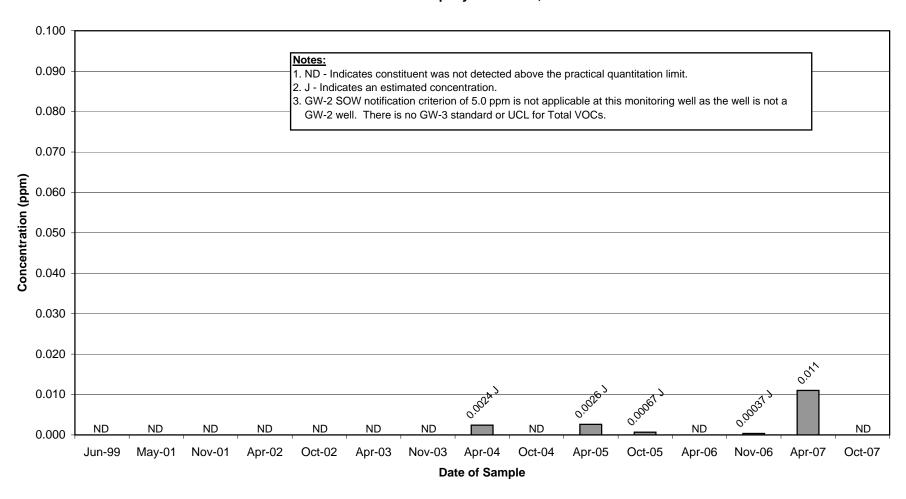
Appendix B Well OPCA-MW-6 Historical Total VOC Concentrations



Appendix B Well OPCA-MW-7 Historical Total VOC Concentrations



Appendix B Well OPCA-MW-8 Historical Total VOC Concentrations

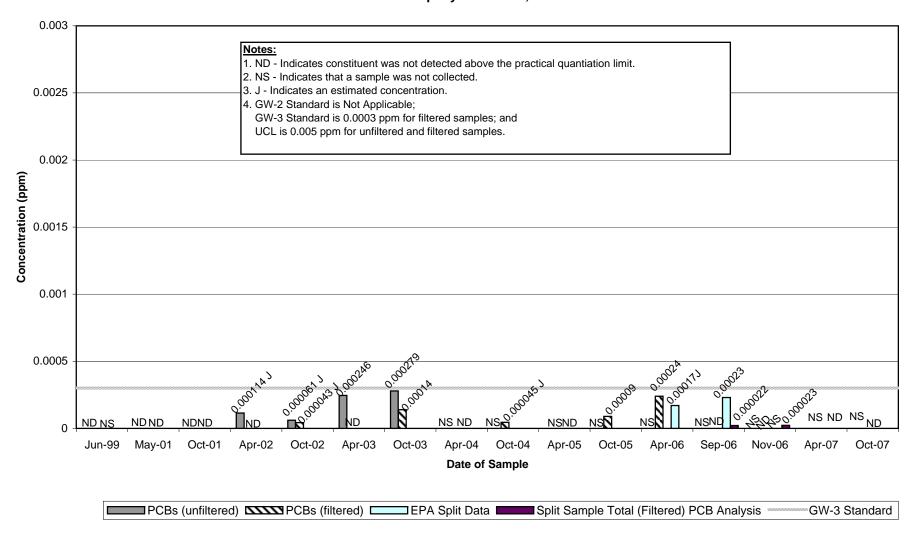


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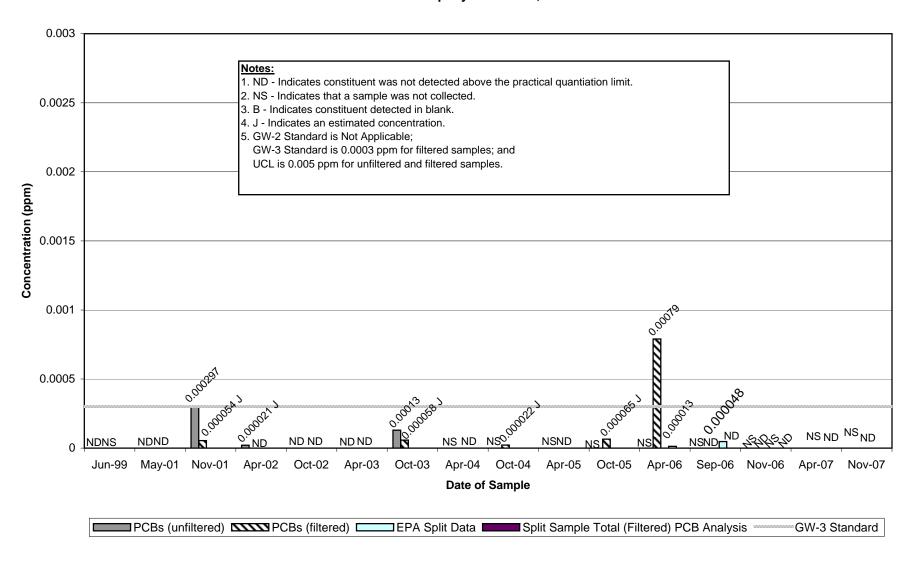
Historical Groundwater Data

Total PCB Concentrations – Wells Sampled in Fall 2007

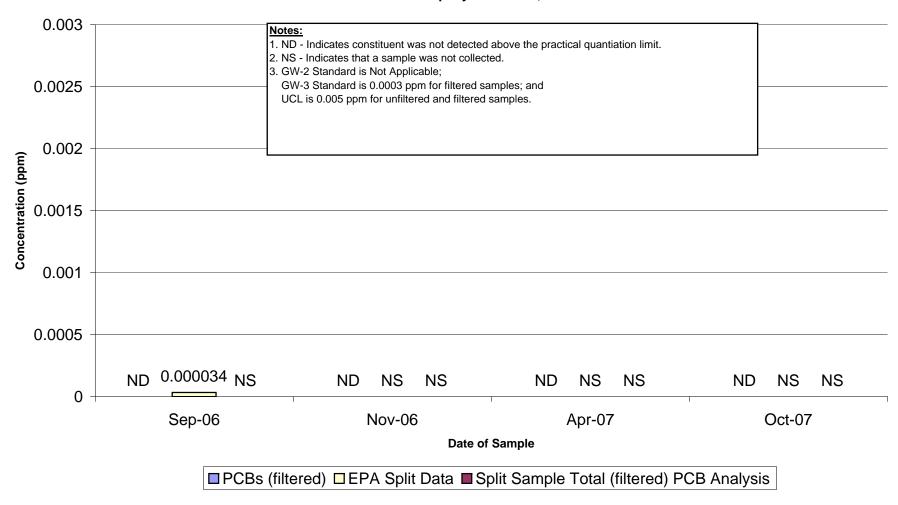
Appendix B Well 78-1 Historical Total PCB Concentrations



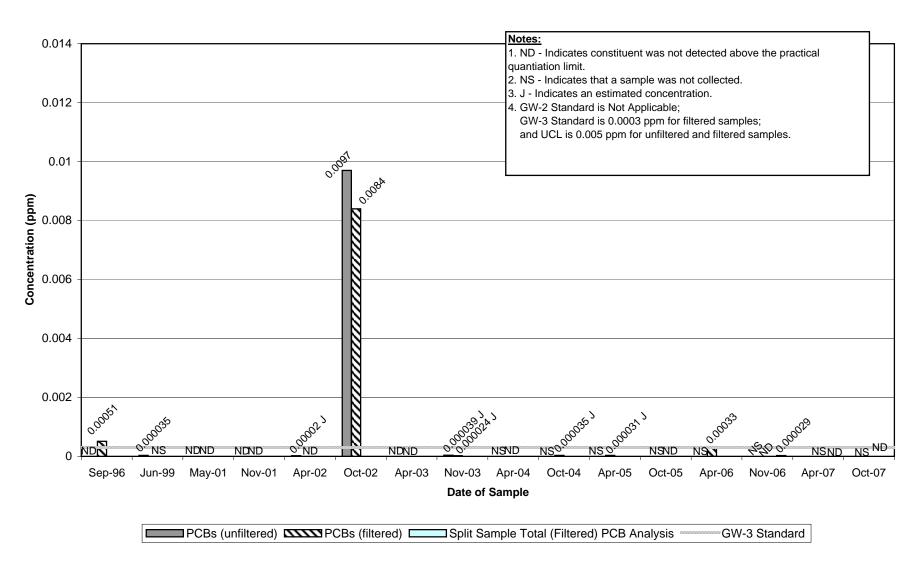
Appendix B Well 78-6 Historical Total PCB Concentrations



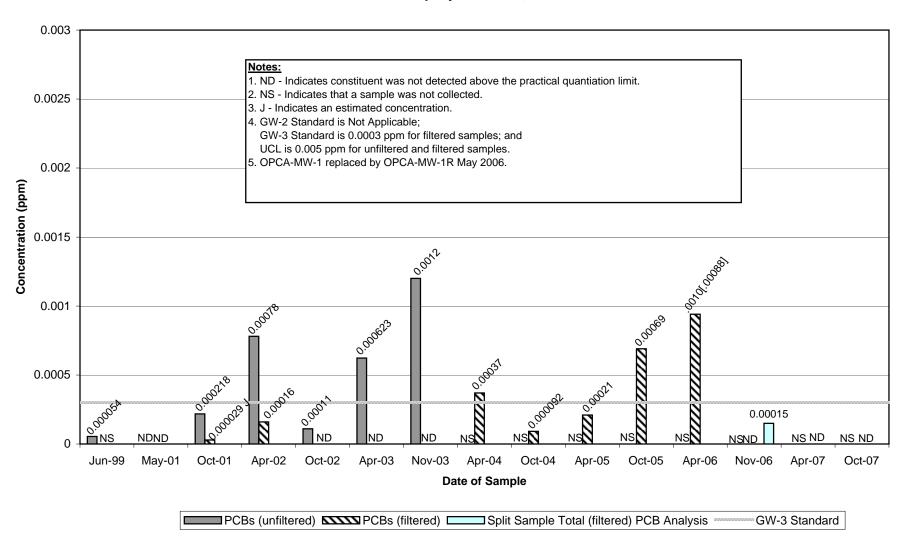
Appendix B Well GMA4-6 Historical Total PCB Concentrations



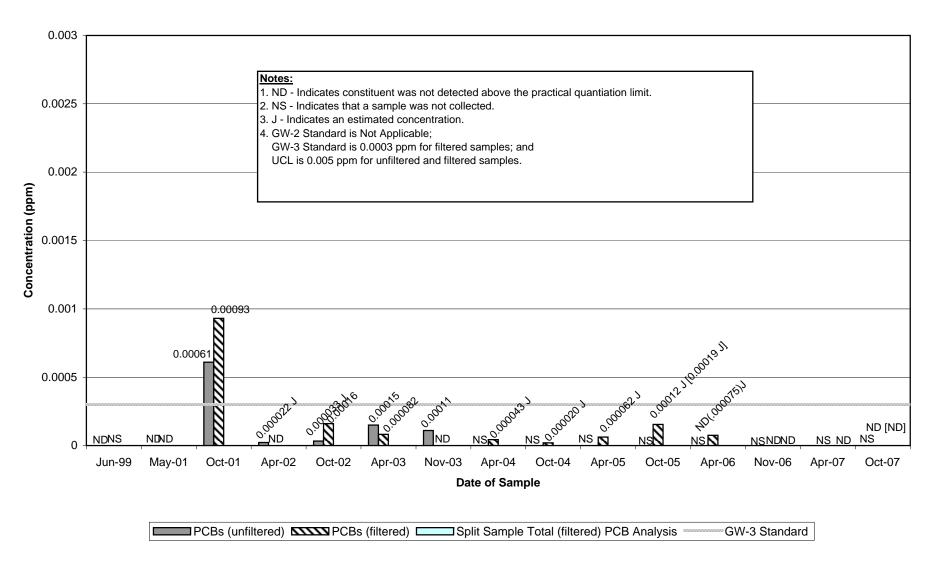
Appendix B Well H78B-15 Historical Total PCB Concentrations



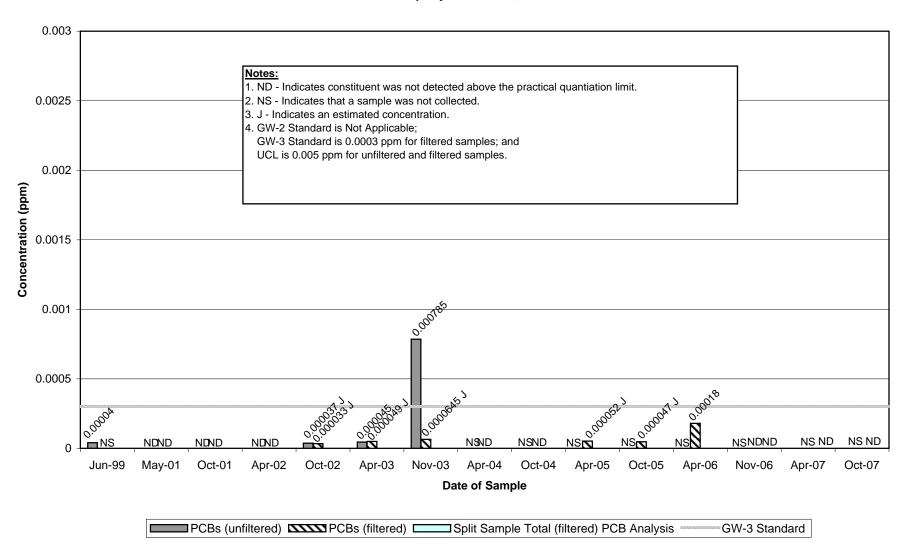
Appendix B Well OPCA-MW-1/OPCA-MW-1R Historical Total PCB Concentrations



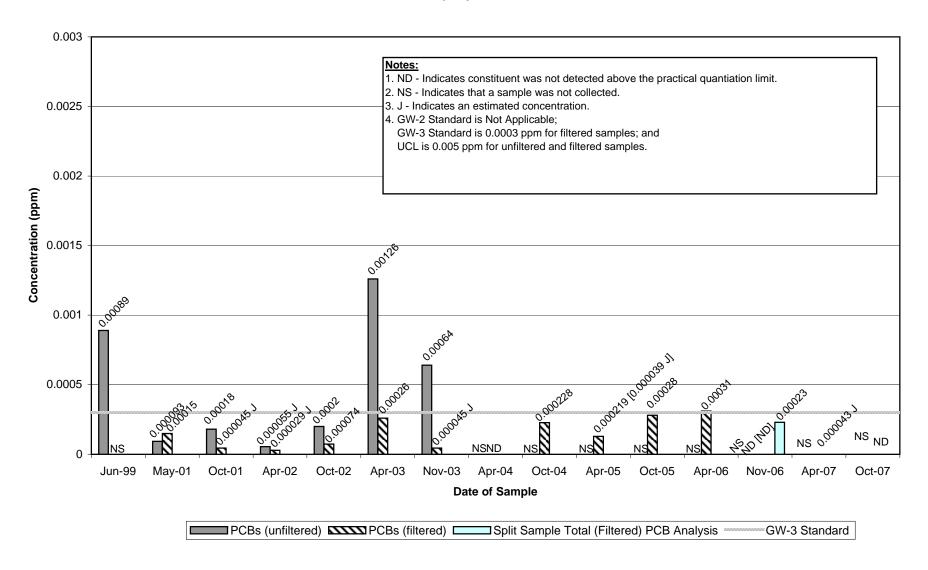
Appendix B Well OPCA-MW-2 Historical Total PCB Concentrations



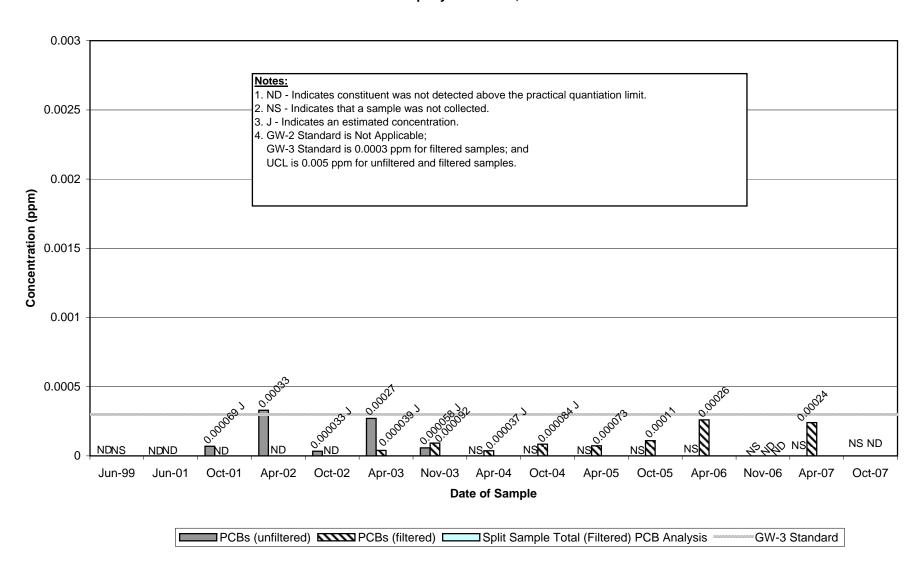
Appendix B Well OPCA-MW-3 Historical Total PCB Concentrations



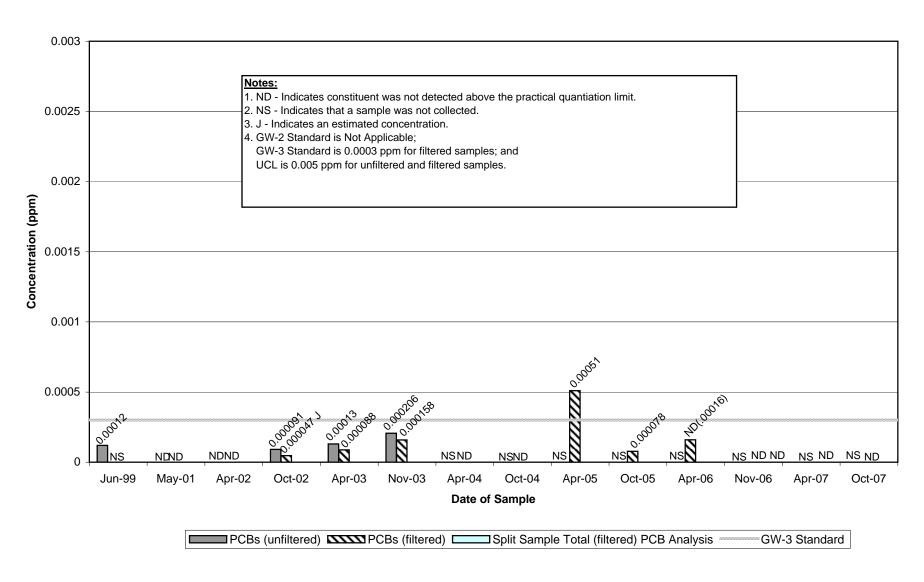
Appendix B Well OPCA-MW-4 Historical Total PCB Concentrations



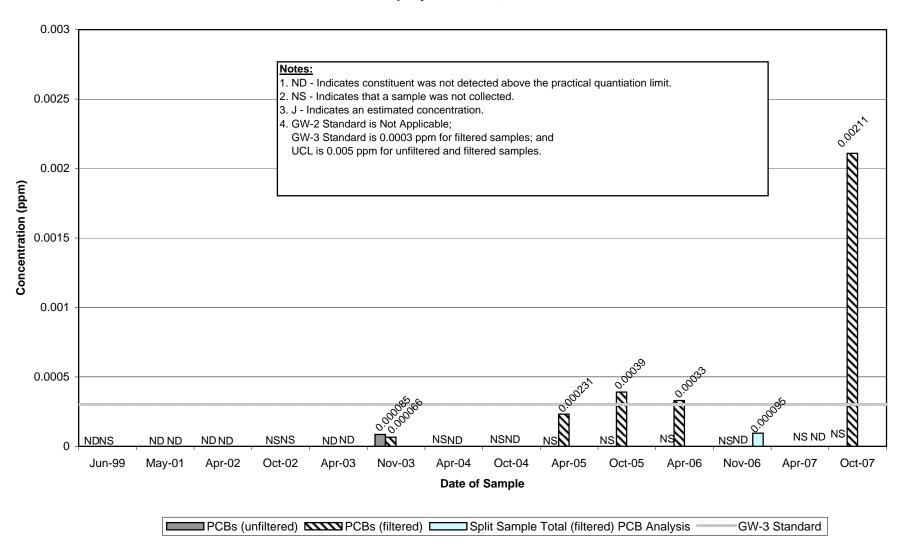
Appendix B Well OPCA-MW-5R Historical Total PCB Concentrations



Appendix B Well OPCA-MW-6 Historical Total PCB Concentrations

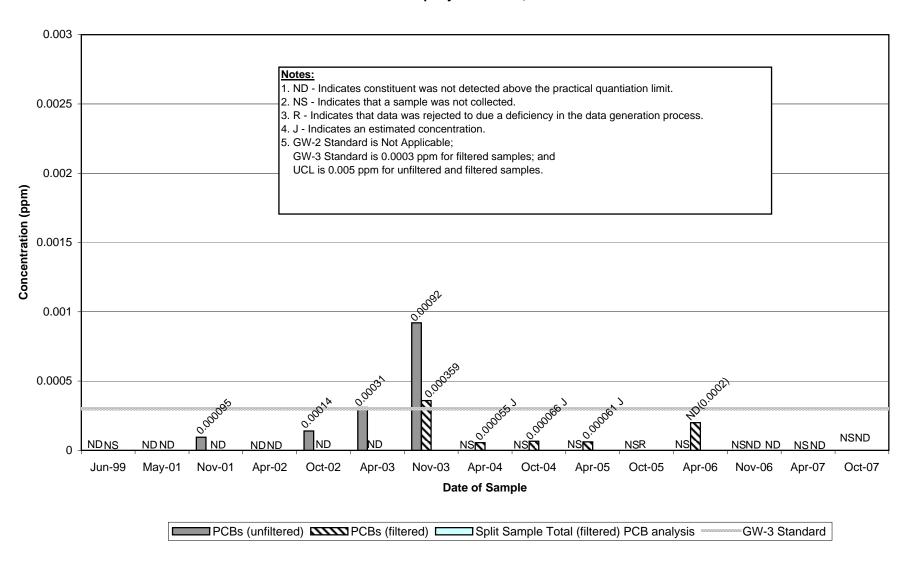


Appendix B Well OPCA-MW-7 Historical Total PCB Concentrations



Appendix B Well OPCA-MW-8 Historical Total PCB Concentrations

Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts



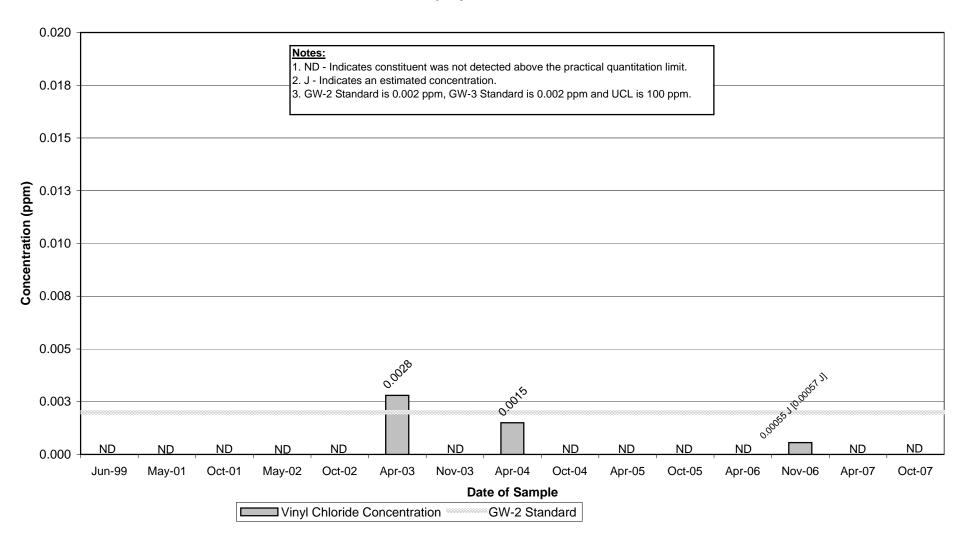
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Historical Groundwater Data

Vinyl Chloride Concentrations – Selected Wells

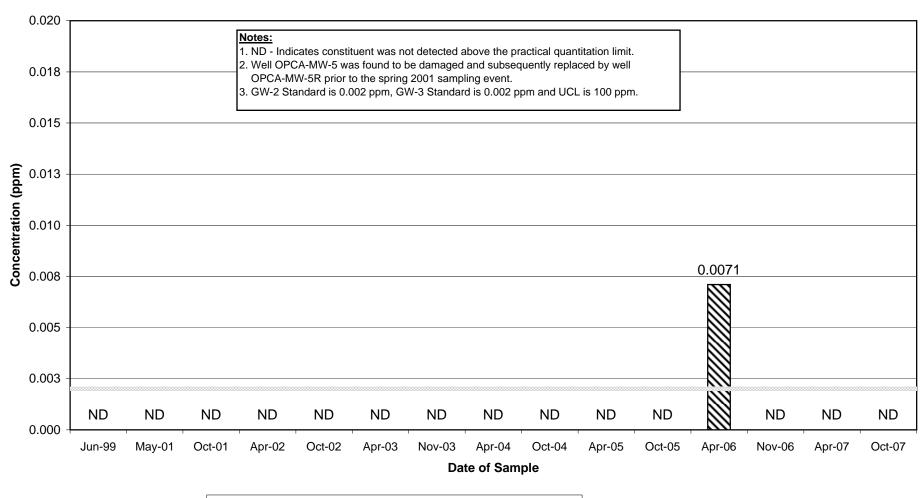
Appendix B Well OPCA-MW-4 Historical Vinyl Chloride Concentrations

Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts



Appendix B Well OPCA-MW-5R Historical Vinyl Chloride Concentrations

Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts



Vinyl Chloride Concentration GW-2 Standard

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Appendix C

Pittsfield Generating Company Groundwater Analytical Data

Table C-1
Summary Of Pittsfield Generating Company Groundwater Data
Groundwater Quality Monitoring Interim Report for Fall 2007
Groundwater Management Area 4
General Electric Company - Pittsfield Massachusetts

(Results in ppm)

Analyte	MCP GW-3	Method 3	ASW-5	ASW-5/W-5*	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5
Identification	Standard	UCL	6/10/96	9/20/96	12/16/96	6/9/97	12/16/97	6/23/98	12/29/98
Volatile Organics									
1,2 - Dichloroethene (total)	None	None							
Acetone	50	100					-		
Methylene chloride	50	100		0.0050 JB			-		
Trichloroethene	20	100	0.016	0.0150	0.014	0.0150	0.0120	0.013	0.024
PCBs - Unfiltered									
PCB-1254	None	None							
PCB-1260	None	None			-				
Total PCBs	Not Applicable	0.005							
PCBs - Filtered									
PCB-1254	None	None	NA		NA	NA	NA	NA	NA
PCB-1260	None	None	NA		NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA		NA	NA	NA	NA	NA

Analyte	MCP GW-3	Method 3	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5
Identification	Standard	UCL	6/21/99	12/13/99	5/31/00	12/26/00	6/20/01	12/11/01	6/12/02
Volatile Organics									
1,2 - Dichloroethene (total)	None	None	0.006						
Acetone	50	100							-
Methylene chloride	50	100							
Trichloroethene	20	100	0.032	0.026	0.021	0.015	0.016	0.013	0.021
PCBs - Unfiltered									
PCB-1254	None	None							
PCB-1260	None	None							
Total PCBs	Not Applicable	0.005							
PCBs - Filtered									
PCB-1254	None	None	NA	NA	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA	NA	NA	NA

Table C-1 Summary Of Pittsfield Generating Company Groundwater Data Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4

General Electric Company - Pittsfield Massachusetts

(Results in ppm)

Analyte	MCP GW-3	Method 3	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5	ASW-5
Identification	Standard	UCL	12/6/02	6/2/03	12/1/03	6/7/04	12/13/04	6/7/05	12/7/05
Volatile Organics									
1,2 - Dichloroethene (total)	None	None							
Acetone	50	100			0.017				
Methylene chloride	50	100							
Trichloroethene	20	100	0.012	0.022	0.016	0.019	0.017	0.018	0.018
PCBs - Unfiltered									
PCB-1254	None	None							
PCB-1260	None	None							
Total PCBs	Not Applicable	0.005							
PCBs - Filtered									
PCB-1254	None	None	NA	NA	NA	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA	NA	NA	NA

Analyte Identification	MCP GW-3 Standard	Method 3 UCL	ASW-5 6/6/06	ASW-5 12/12/06	ASW-5 6/4/07	ASW-5 12/4/07
Volatile Organics						
1,2 - Dichloroethene (total)	None	None				
Acetone	50	100				
Methylene chloride	50	100				
Trichloroethene	20	100	0.014	0.012	0.0086	0.014
PCBs - Unfiltered						
PCB-1254	None	None				
PCB-1260	None	None				
Total PCBs	Not Applicable	0.005				
PCBs - Filtered						
PCB-1254	None	None	NA	NA	NA	NA
PCB-1260	None	None	NA	NA	NA	NA
Total PCBs	0.0003	0.005	NA	NA	NA	NA

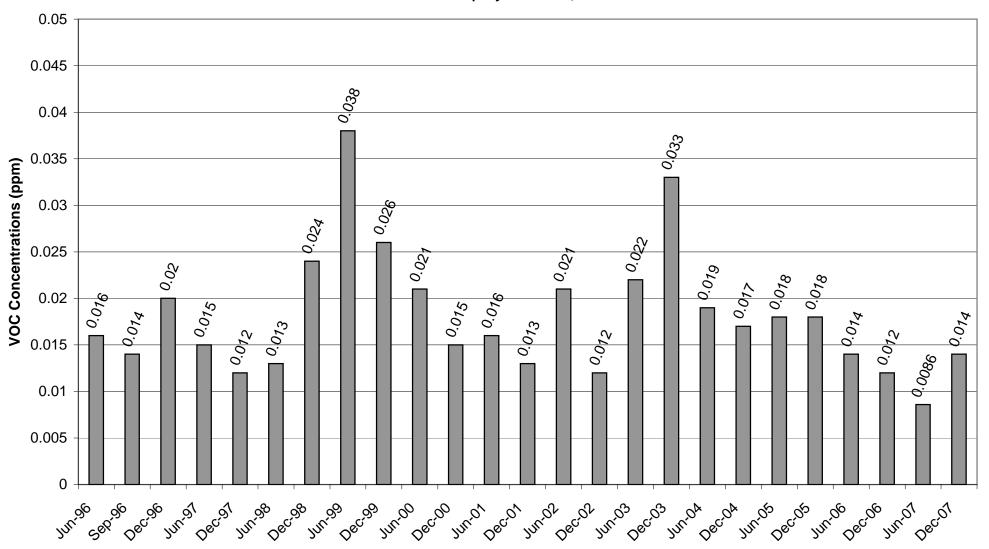
Notes:

- 1. Only parameters detected in at least one sample are shown.
- 2. -- Compound was not detected.
- 3. J Indicates an estimated value less than the practical quantitation limit (PQL).
- 4. B Analyte was also detected in the associated blank.
- 5. * Sample was collected by Blasland, Bouck, & Lee, Inc.
- 6. NA Not Analyzed

Appendix C

Summary of Pittsfield Generating Company Groundwater Data Well ASW-5 Historical Total VOC Concentrations

Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts

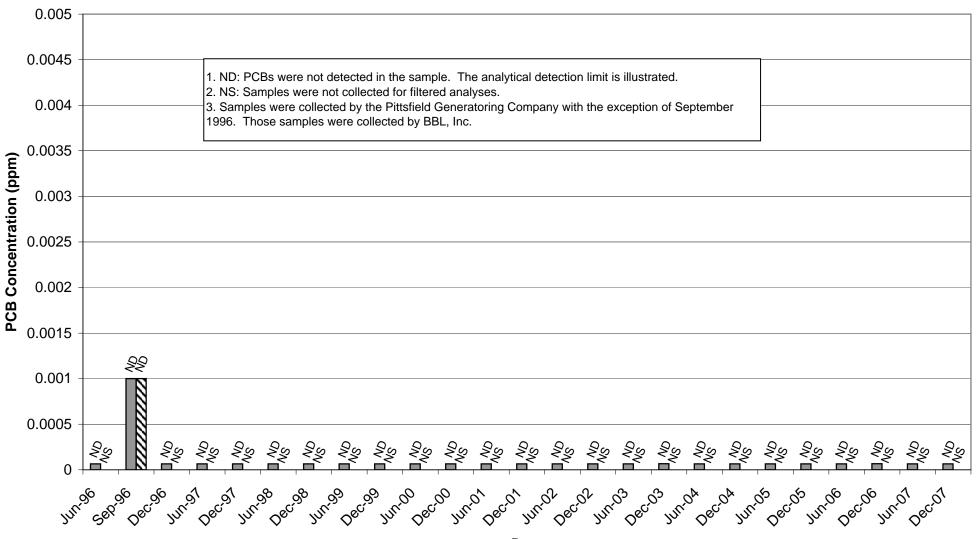


Date of Sample

Appendix C

Summary of Pittsfield Generating Company Groundwater Data Well ASW-5 Historical Total PCB Concentrations

Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts



Date

■ PCBs (unfiltered) ■ PCBs (filtered)

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Appendix D

Field Sampling Data

Table D-1
Groundwater Sampling Methods

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts

Well Number	Type of Pump	Average Fall Depth to Water (ft-bgs)	Depth to Till (ft-bgs)	Well Screen Interval (ft-bgs)	Approximate Pump Intake Placement ⁽¹⁾ (ft-bgs)
78-1	Peristaltic	11.9	12	8-23	14
78-6	Peristaltic	9.2	13	3-18	12
GMA4-6	Peristaltic	8.9	>13	3-13	11
H78B-15	Peristaltic	11.3	14	6-16	14
H78B-16 ⁽²⁾	Peristaltic	8.7	14	4-14	12
H78B-17R (2)	Bladder	12.2	14	14.3-23.5	20
OPCA-MW-1R	Peristaltic	8.1	14	10-25	13
OPCA-MW-2	Bladder	16.6	>23	13-23	19.5
OPCA-MW-3	Bladder	21.0	>28	18-28	25
OPCA-MW-4	Peristaltic	13.4	>22	12-22	17
OPCA-MW-5R	Peristaltic	12.8	17	11.25-21.25	17
OPCA-MW-6	Submersible	18.6	>25	15-25	22
OPCA-MW-7	Peristaltic	19.6	18	14-24	18
OPCA-MW-8	Bladder	13.1	7	13.5-23.5	19

NOTES:

- 1. Pump intake is generally placed at the center of the saturated well screen in a typical 10-foot screen length well that intersects the water table. Modifications may be required when the water table is above the top of the well screen, for wells with saturated screened lengths greater than 10 feet, and for wells screened across the till interface. The five pump placement categories for GMA 4 are listed below. If the actual depth to water varies significantly from the average values provided above, the pump intake depth is re-assessed in the field and placed accordingly.
 - <u>Mid-Column</u> Well screen straddles water table and is placed entirely above or below till interface, and less than 10 feet of water is typically present. Therefore, pump intake is located at mid-point between water surface and base of well.
- <u>Mid-Screen:</u> Well screen is positioned below the water table and is placed entirely above or below till interface. Therefore, pump intake is to be located at mid-point of the well screen.
- <5 ft Below Water</p>
 Well screen straddles water table and is placed entirely above or below till interface, and greater than 10 feet of Table: water is typically present. Therefore, the pump intake is located five feet or less below the water surface.
 - <u>Above Till</u> Well screen crosses till interface and water table is present above till surface. Therefore, pump intake is located just <u>Interface:</u> above till interface to facilitate pumping from more permeable upper unit.
 - <u>Near Till.</u> Well screen crosses till interface and water table is present near till surface. Therefore, pump intake is to be located <u>Interface</u>: just above till interface (if sufficient water is present), or as close to till interface as possible if water levels draw down to below that depth during pumping.
 - 2. Sampling of these two wells is to be conducted on an annual basis, alternating between the spring and fall seasons each year. This schedule began with the spring 2004 event and the second scheduled interim sampling event was performed in fall 2005.

Table D-2
Summary of Historical Groundwater Sampling Methods
Groundwater Quality Monitoring Interim Report for Fall 2007
Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts

Well					Sampling	g Method						
Number	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Spring 2005	Fall 2005	Spring 2006	Fall 2006	Spring 2007	Fall 200
78-1	PP/BA	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
		Vater became					•	•		•	•	•
78-6	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
		owered tubing CDD/F samp										
GMA4-6			-							PP	PP	PP
H78B-15	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Spring 2006	Tubing dropped: SVOC samularbidity mete	ple not colled r malfunction	ted.								
H78B-16	PP/BA	PP	PP	PP	PP	NS	NS	PP	PP			PP
H78B-17R	BP	PP	BP	BP	BP	NS	NS	BP	BP			BP
		issolved oxyg										
OPCA-MW-1/MW1-R	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
		: pH meter m										
OPCA-MW-2	PP/BA	BP	BP	BP	BP	BP	BP	BP	BP	BP	PP	BP
	Spring 2003	Vater level pro B: Bladder pur Very low flow r	np to be use	d instead of	submersible p	oump.						
OPCA-MW-3	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
OPCA-MW-4	PP	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
		Vell dried duri			mpling comp	leted after re						
OPCA-MW-5R	PP/BA	BP	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
		Vell dried duri						•				
OPCA-MW-6	PP/BA	PP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
	Spring 2003	lot enough was: Proposed to ery low flow r	use a subm	ersible pump	; however, th	ne depth to w	ater allowed	d for the use o	f a bladder p	oump.		
OPCA-MW-7	PP/BA	NS	PP	PP	PP	PP	PP	PP	PP	PP	PP	PP
	Fall 2006: E Spring 2006 Fall 2005: W		ng length to r dropping du uring purging	near bottom a ring purging. . Several vis	after water lev Pump lower	el went belo ed approx. 1	foot to comp	olete sampling		te sample vo	lume for each p	arameter

Table D-2
Summary of Historical Groundwater Sampling Methods
Groundwater Quality Monitoring Interim Report for Fall 2007

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts

Well					Samplin	g Method						
Number	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	Spring 2005	Fall 2005	Spring 2006	Fall 2006	Spring 2007	Fall 2007
OPCA-MW-8	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP	BP
	Fall 2007: Pt	ump off due t	to battery. W	ell went dry,	sampled afte	r rechargin th	ne following o	day.		•		
UB-MW-5	NS	NS	NS	NS	PP	NS	PP	PP	PP			
		Yell ran dry dunalyzed : Well dried un outlied und un outlied un outlie	uring purging uring purging during purgin ample collec o sample collec ample collec	. Several vis npling on 4/5, g and did not ted. lected. ted.	its over seve	n different da al samples w	ays were req			oriate sample	volume for eac	ch

NOTES:

- 1. BP Bladder Pump
- 2. PP Peristaltic Pump
- 3. BA Bailer
- 4. PP/BA Peristaltic Pump with bailer used for VOC sample collection
- 5. NS Not Sampled
- 6. RFP Removed From Program

Well No		-1		-	te/GMA Name	GE PI	Hsfielo	1/GM	A4	
•	. <u>A</u> 4			_ Sampi	ing Personnel	10/	1:7			
	ckground (ppm)		4444	-	Date	10/9	7/07	7		
vveli Hi	eadspace (ppm)			-	Weather	605	, over	1018+	bree zu	
WELL INFOR	MATION	Por.					Sample Time	- 1120	<u>っ</u> '	
Referen	ce Point Marked?	? (Y) N					Sample II	78	l	
Height o	f Reference Poin	1	Meas. From		_		Duplicate II	78	1+15 P	
	Well Diamete	-4"					MS/MSI	78	-1 MSTM	15D
Scre	en Interval Depth	<u>8-23</u>	Meas. From	Ground	-		Split Sample II)		
V	/ater Table Depth		Meas. From		_					
	Well Depth		Meas. From	TIC	-	Required	<u>Analytic</u>	al Parameters	: Collecte	∌d
_	of Water Column		-			(X)	VOC	s (Std. list)	(,
	e of Water in Wel					()	VOC:	s (Exp. list)	(1
intake Depti	n of Pump/Tubing	0/6	_ Meas. From	716	<u>.</u>	(X)	5	SVOCs	(X)	1
						()	PC	3s (Total)	()	1
	int Identification:					(X)		(Dissolved)	(ير)	į.
•	ner (PVC) Casin	-				()		organics (Tota		i.
•	Outer (Protective) Casing				(👋)		anics (Dissolv		(
Grade/BGS:	Ground Surface					()	•	nide (Dissolve	, , ,	
Redevelop?	v (ii)					(X)	-	nide (Dissolve	d) (🔀)	
Redevelop?	Y (N)					(X)		Ds/PCDFs	()	
						()		es/Herbicides	()	
						() . "La" ,		l Attenuation	()	
EVACUATION	I INFORMATION	i				(,X ')		r (Specify)	()	
	Pump Start Time	- day 1/2 day	S				2n	Rde		
	Pump Stant Time	14 4 /20 /	<i>-</i>		F.,	Marie Barrer	, 5, ,,			
	utes of Pumping		-		Evacuation Me			Pump ()		
	Water Removed	1090110	 5 . 5		Peristaltic Pum	p(A) Su	bmersible Pump	-	ther/Specify ()	
	oid Well Go Dry?	Y			Pump Type:	<i>U</i>	o pom	K.P		
L.	old Well Go Diy?	' (1)			Samples collec	ted by same me	thod as evacuation	on? Y N	(specify)	
	Water Quality N	/leter Type(s) / S	erial Numbers:	VSI (556 MB	1 03	MO230	O AC.		*
r				7	- 1					
	Pump	Total	Water	Temp.	pН	Sp. Cond.	Turbidity	DO	ORP	\neg
Time	m Rate	Gallons	Level	(Celsius)		(mS/cm)	(NTU)	(mg/		
	/////////////////////////////////////	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]	* (10% or 0.	1_mg/l]* [10 mV]	ŗ.
1000	150		13.52	14.76	6.86	1.070	7 1.0	3 46. 2	214.	
1005	150	.199	13.59	14.70	6.86	1.070	9 1.5	0+4.	7 216.	ا ح
1010	150	.398	13.71	14.77	6.85	1.069	1/ 1.3	17/7/	216.	7
1015	150	597	13.81	14.82	6.85	1.070	12 16	516	1 2/5.	
1020	150	,796	13.80	14 78	6.85	1.070	,	145		<u>, </u>
1025	150	695	1395	14-19	6.84	1,071	a	-17	2/3/	2
15000	150	119	14/13	14.80	6.84	, ,	0, ,	11.1.2	2111	<u>`</u>
1030		120	0/1 1/1	2 / 00	6.87	1:07/	7	120	914,	\exists
1035	150	1:39	+14-14		6.85	1,071	<u>+ 1.2</u>	Vidio	d/3	٤
* The stabilizat	ion criteria for ea	ch field paramet	er (three consec	utive readings c	ollected at 3- to	5-minute interva	ls) is listed in eac	h column hea	ding.	
OBSERVATIO	NS/SAMPLING I	METHOD DEVI	ATIONS							
						,				
			····	· · · · · · · · · · · · · · · · · · ·		f				
									7-5-4	
SAMPLE DES										
Laboratory:			A		ř					
Delivered Via:	1.10.									
	UPJ							C 2	- The state of the	
Airbill #:				1	Field Sampling	Coordinator:	Thuy	2 2 %		RECEIPT .

ŧ

Well No	Site/GMA Name GE P. HSGED / GMA 4
	Sampling Personnel K/C
	Date 10/9/07
	Weather 60's overcoust breezy
WELL INFORMATION - See Page 1	

<u></u>	1					,		·	
	Pump	Total	Water	Temp.	рH	Sp. Cond.	Turbidity	DO	ORP
Time	Rate	Gallons	Level	(Celsius)		(mS/cm)	(NTU)	(mg/l)	(mV)
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	[10 mV]*
1040	150	1.592	14.20	14.81	1685	1.072	<u> </u>	6H-5	212,7
1045	į	1,791	14.28	14.79	6.85	1.073	5 1.0	710.6	212.0
1050		1.990	14.32	14.79	6.85	1.073	4 1.1	140	211.6
1055		2.189	14,42	14.80	6.86	1,074	3 1.0	9/0.0	a10.7
1100		2.388	14.50	14.78	6.85	1.076		59,4	209.9
1105		2.587	14.59	14.77	6.86	1,078		88.7	208.9
111036	W	2.786	14.66	14.74	6.86	1,080	_	78.to	207.8
1115	150	2.985		14,74	6.86	1,081	2 08		2069
1120	E-manuel -	SAM	PLED	at,	1120				Y
				·					
							i		
			*****************		4				34.
	,			,					

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Well No.	787	6		S.	te/GMA Name	(+N	14-4		
Key No					ing Personnel	Vic	DAR		Annual An
-	kground (ppm	0			Date	1/1	13107	 	
Weil He	adspace (ppm	0			Weather	Partly	acider	Hich 40	3 Wrdy
							J	0	
WELL INFOR	MATION						Sample Time	14.16	
Referenc	e Point Marked	? Y N	•				Sample ID	78-6	4
Height of	Reference Poin	21.0	Meas. From		-		Duplicate ID		
	Well Diamete	f		1 . 1			MS/MSD		
	en Interval Depti	000		Ground	_		Split Sample ID		
VV	ater Table Depti Weil Depti		Meas. From Meas. From		-	Required	Anaketical	Parameters:	Collected
Length o	of Water Column		INCOM. I TOTA		-	(X)	***************************************	(Stri. list)	(X)
=	of Water in We		נ בים ל			(3	,	(Exp. list)	()
	of Pump/Tubing	-	Meas. From	TIL		(X)		/OCs	(%)
					-	()	PCBs	s (Total)	()
Reference Poi	nt Identification:					(X)	PCBs (Dissolved)	(X)
TIC: Top of In	ner (PVC) Casin	g				()	Metals/inci	ganics (Total)	(^)
•	Outer (Protective) Casing				(X)	Metais/Inorga	nics (Dissotved)	(/)
Grade/BGS: G	Fround Surface					()	EPA Cyani	de (Dissolved)	(*)
	× 🙃					(X)	•	de (Dissolved)	(*)
Redevelop?	Y (N)	•				(X)		s/PCDFs	(*)
						()		s/Herbicides	()
						()		Attenuation (Specify)	()
EVACUATION	INFORMATION	ــ ا				(X)		ifide	(1)
P	ump Start Time	12:05)		•			• 1	
ρ	ump Stop Time	15:20	Ĩ,		Evacuation Me	thod: Bailer () Bladder P	tump ()	
Minu	ites of Pumping	195	_		Peristaltic Pum		bniersible Pump (,	scify ()
Volume of V	Vater Removed	5-254	llons		Pump Type:	C D	>	•	, ,
n:					tunip typo.	Geo Pu	mb c		
L)	id Well Go Dry?	Y (N)'					thod as evacuation	n? (Y) N (specif	y)
	• •			YCT #	Samples collec	ted by same me	thod as evacuation	•	
	• •	Y N /		YST#	Samples collec		thod as evacuation	•	v) vbjjjmete
	• •			IST #	Samples collec	ted by same me	thod as evacuation	•	
	Water Quality N	feter Type(s) / S	lerial Numbers:	1=-	Samples collect	ted by same me	who as evacuation	2100P Tu	rbillim ete
	Water Quality M	feter Type(s) / S	erial Numbers:	Temp.	Samples collect	sp. Cond.	Hack Turbidity	2100P TU	orp ORP
	Water Quality N	feter Type(s) / S Total Gallons	erial Numbers: Water Level	Temp. (Celsius)	Samples collect	Sp. Cond.	Turbidity (NTU)	2100P Tu 00 (mg/l)	ORP (mV)
Time	Water Quality M Pump Rate (L/min.)	feter Type(s) / S Total Gallons	erial Numbers: Water Level	Temp. (Celsius)	Samples collect	Sp. Cond.	Turbidity (NTU)	2100P Tu 00 (mg/l)	ORP (mV)
11me	Water Quality M Pump Rate (L/min.)	feter Type(s) / S Total Gallons Removed O · 20	erial Numbers: Water Level	Temp. (Celsius)	Samples collect 3 5 5 7 pH (0.1 units)*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]*	2100P Tu 00 (mg/l)	ORP (mV)
Time 1205 1210	Pump Rate (L/min.) 150 150	Feter Type(s)/S Total Gallons Removed O·20 O·40	Water Level (ft TIC) 7.85° 7.91	Temp. (Cetaius) [3%]*	Samples collect 3 5 5 7 pH (0.1 units)*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]* 83	2100P Tu 00 (mg/l)	ORP (mV)
1205 1210 1215	Pump Rate (L/min.)	feter Type(s) / S Total Gallons Removed	Water Level (ft TIC) 7.85° 7.91	Temp. (Celsius)	Samples collect 3 5 5 7 pH (0.1 units)*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]* 83	2100P Tu 00 (mg/l)	ORP (mV)
1205 1210 1215	Pump Rate (L/min.) 150 150 150 Flow	Fotor Type(s)/S Total Gallons Removed O-20 G-40 COMISTO	Water Level (ft TIC) 7.85 7.91 7.91	Tomp. (Cotaius) [3%]* 5till filly	pH (0.1 units)*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]* 8 3 6 2 4 3	2100P Tu 00 (mg/l)	ORP (mV) [10 mV]*
1205 1210 1215	Pump Rate (L/min.) 150 150 150 Flow	Feter Type(s)/S Total Gallons Removed O·20 O·40 Canista	Water Level (ft TIC) 7.85° 7.91	Temp. (Cetaius) [3%]*	pH [0.1 units]*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]* 83 62 43 -32 32	2100P Tu DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1205 1210 1215	Pump Rate (L/min.) 150 150 150 Flow -	Feter Type(s)/S Total Gallons Removed O-20 G-40 Canisti O-66 O-79	Water Level (ft TIC) 7.85 7.91 7.91 48.11 8.18	Temp. (Cetaius) [3%]* 5till fillus 13.50 13.46	pH (0.1 units)*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU] 83 62 43 - 32 31	2100P Tu 00 (mg/l)	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1225 1230 1235	Pump Rate (L/min.) 150 150 150 Flow - 100 100	Feter Type(s)/S Total Gallons Removed O·20 O·40 Canisti O·66 O·79 O.92	Water Level (ft TIC) 7.85° 7.91 7.91 48.11 6.18 8.25 8.37	Temp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32	pH f0.1 units i* 6.55 6.54 6.54	\$p. Cond. (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]* 83 62 43 -32 31 34	2100P Tu 1000 (mg/l) [10% or 0.1 mg/l]* 19.24 16.80 7.80	ORP (mV) [10 mV]*
Time 12.05 12.10 12.15 12.20 12.25 12.25 12.30 12.35	Pump Rate (L/min.) 150 150 150 Flow - 100 100 100 no criteria for ea	Feter Type(s)/S Total Gallons Removed O.20 O.40 Canista O.66 O.79 O.92 ch field parameter	Water Level (ft TIC) 7.85° 7.91 7.91 478.11 8.18 8.25 8.37 er (three consec	Tomp. (Cotaius) [3%]* 5till fillus 13.50 13.50 13.46 13.32 sutive readings of	pH (0.1 units)*	\$p. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]* 83 62 43 32 31 34 Is) is listed in each	2100P Tu 190 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Time 12.05 12.10 12.15 12.20 12.25 12.25 12.30 12.35 The stabilization	Pump Rate (L/min.) 150 150 150 Flow - 100 100	Feter Type(s)/S Total Gallons Removed O.20 O.40 Canista O.66 O.79 O.92 ch field parameter	Water Level (ft TIC) 7.85° 7.91 7.91 478.11 8.18 8.25 8.37 er (three consec	Tomp. (Cotaius) [3%]* 5till fillus 13.50 13.50 13.46 13.32 sutive readings of	pH (0.1 units)*	\$p. Cond. (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]* 83 62 43 32 31 34 Is) is listed in each	2100P Tu 1000 (mg/l) [10% or 0.1 mg/l]* 19.24 16.80 7.80	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1230 1235 *The stabilization COLOV	Fump Rate (L/min.) 150 150 150 Flow 100 100 100 100 100 100 100 100 100	Feter Type(s)/S Total Gallons Removed O-20 O-40 Canistr O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85' 7.91 7.91 478,11 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till fillus 13.50 13.50 13.46 13.32 sutive readings of	pH (0.1 units)*	\$p. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]* 83 62 43 32 31 34 Is) is listed in each	2100P Tu 190 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Time	Fump Rate (L/min.) 150 150 150 Flow 100 100 100 100 100 100 100 100 100	Feter Type(s)/S Total Gallons Removed O-20 O-40 Canistr O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32 utive readings of No. 6	pH (0.1 units)*	\$p. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 83 62 43 - 32 31 31 34 Is) is listed in each cipt afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1235 1235 The stabilization observation color Attached	Pump Rate (L/min.) 150 150 150 Flow 100 100 100 100 Ham ing	Feter Type(s)/S Total Gallons Removed O-20 O-40 Canistr O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32 utive readings of No. 6	pH (0.1 units)*	ted by same me S MPJ Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 83 62 43 37 31 31 34 Is) is listed in each cipit afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1235 1235 The stabilization COLOV Westernamental Colov Marcheol Fine 50	Pump Rate (L/min.) 150 150 150 Flow 100 100 100 100 100 Ham into	Feter Type(s)/S Total Gallons Removed O-20 O-40 Canistr O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32 utive readings of No. 6	pH (0.1 units)*	\$p. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 83 62 43 37 31 31 34 Is) is listed in each cipit afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1230 1235 *The stabilization OBSERVATION COLOV ** lower Attached Fine 51 SAMPLE DEST	Pump Rate (L/min.) 150 150 150 Flow 100 100 100 100 100 100 100 Ham interior for each stranger for	Feter Type(s)/S Total Gallons Removed O-20 O-40 Canistr O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32 utive readings of No. 6	pH (0.1 units)*	ted by same me S MPJ Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 83 62 43 37 31 31 34 Is) is listed in each cipit afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
Time 1205 1210 1215 1220 1225 1225 1230 1235 The stabilization colory	Pump Rate (L/min.) 150 150 150 150 Flow 100 100 100 100 100 100 100 100 100	Feter Type(s)/S Total Gallons Removed O-20 C-40 CGMIST O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Tomp. (Cotaius) [3%]* 5till filling 13.50 [3.46 13.32 utive readings of No. 6	pH (0.1 units)*	ted by same me S MPJ Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU] 83 62 43 37 31 31 34 Is) is listed in each cipit afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*
1205 1210 1215 1220 1225 1230 1235 *The stabilization OBSERVATION COLOV ** lower Attached Fine 51 SAMPLE DEST	Pump Rate (L/min.) 150 150 150 150 Flow 100 100 100 100 100 100 100 100 100	Feter Type(s)/S Total Gallons Removed O-20 C-40 CGMIST O-66 O-79 O-92 ch field paramet	Water Level (ft TIC) 7.85 7.91 7.91 8.18 8.25 8.37 er (three consecutions	Temp. (Cetaius) [3%]* 5till filling 13.50 13.46 13.32 sutive readings on No a Cador a appears	pH (0.1 units)*	sp. Cond. (ms/cm) [3%]* 1.805 1.807 5-minute intervaluatly pre	Turbidity (NTU) [10% or 1 NTU] 83 62 43 37 31 31 34 Is) is listed in each cipit afe (2100P TU 1000 (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*

Well No.	78-6	Site/GMA Name	_GN	1A-4				
		Sampling Personnel	_KL	C, RAB				
		Date	- 111	13/07				
		Weather	Partle	Cloudy	Hiso	. 40s	windu	1
					//		1	

WELL	INFORM	ATION	- See	Page	1
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	Pump	Total	Water	Temp.	pН	Sp. Cond.	Turbidity	OŒ	ORP
Time	Rate (Limin.)	Gallons Removed	Level (ft TIC)	(Celsius) (3%)*	(0.1 units)*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	(mg/i) [10% or 0.1 mg/i]*	(mV) [10 mV]*
1240	100	1.05	8.32	13.58	6.51	1.796	<i>35</i>	3.80	9.0
1245	100	1.18	8.34	13.78	6.74	1.793	38	€.1.35	3.6
1250	100	1.31	8.35	13.39	6.77	1.803	41	1.09	-0.1
1255	80	1.42	8.35	13.39	6.80	1.802	45	7.23	-5.4
1300	80	1.53	8,35	13.23	6.84	1.809	42	1.15	-9.9
1305	80	1.64	8.35	13.43	6.81	1.805	42	0.78	-12.4
1310	.80	1.75	8.35	13.58	6.81	1.810	42	0.68	-14.5
1315	80	1-86	8.35	13,10	6.83	1.815	42	0.66	-17.16
1320	100	1-99	8.35	13,46	6.84	1.808	46	0.66	-20.1
1325	100	2.12	8,35	13.56	6.84	1.811	5 0	0.71	-22.7
<i> 33</i> 0	125	2,29	8.35	13,34	6.285	1.813	56	0.69	-27.3
1335	125	2.46	8,39				56	***	
1340	150	2.66	8.37				60		
1345	150	2.86	8.37				62		
1350	100	2.99	8.38				63		
/355	100	3-12	8.37		ds		61		
1400	100	3.25	8.37		· 	,	59		
1405	100	3-38	8,37				605	7	
1407	100	3-51	8.37				<u>5Z</u>		
1410	100	3.64	8.36		·		52		1
1413	100	3-77	8,36				46		
1416	סמנ	3.90	8.36				47		
				3					
·									
	,								

* The stabilization criteria for each field normator (three each	onsecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
	Dixoneeded 9 1330 Turbity >50
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	DISCONNECTED & 1000 1 WIDITY 700
Switched battery @ 1335	
All other parameters were with	in 10% prior to turbity issues initiated samplifu
when two body fell below	
::WORKNSEGroundwater/654199AttachanentO-2	, so por a constant

BROWN STREET PROPERTY, NORTH ADAMS, MASSACHUSETTS

Well No. 78-6	Site Name	GMA	. 4			
Key No.	Sampling Personnel	JAP		•		
PID Background (ppm)	Date	10/8/07	1			
Well Headspace (ppm)	Weather	Overc	ast.	o's "F		
WELL INFORMATION			Sample Time	1513		
Reference Point Marked? (Y) N	A		Sample ID	<u> 78-</u>	(v	-
Height of Reference Point Meas. From	GROUND		Duplicate ID	Salara de la companya della companya della companya de la companya de la companya della companya	· ·	-
Well Diameter	· ·		" MS/MSD	***************************************		-
	BES		Split Sample ID			~
4.6	TIC					
Well Depth 10-31 Meas. From	TIC	Required	Analytical	Parameters:	Collected	
Length of Water Column 4, 73		$\langle X \rangle$	VOCs	(Std. list)	(X)	
Volume of Water in Well <u>CXSG</u>	، رميدياسيسه	()	VOCs	(Exp. list)	()	
Intake Depth of Pump/Tubing 12.5 Meas. From	TIC	(X)		/OCs	(X)	
Reference Point Identification:		()		s (Total)	()	
TIC: Top of inner (PVC) Casing		()	-	Dissolved) rganics (Total)	(X)	
TOC: Top of Outer (Protective) Casing		(×)		nics (Dissolved)	()	
Grade/BGS: Ground Surface		()		de (Dissolved)	()	
Redevelop? Y N		(X)	•	de (Dissolved)	(X)	
Redevelopt 1 14				s/PCDFs	(X)	
		()		s/Herbicides Attenuation	()	
		(×)		(Specify)	('\sigma')	
EVACUATION INFORMATION				sulfide	(X)	
Pump Start Time 13/10						
Pump Stop Time	Evacuation Met	thod: Bailer () Bladder P	ump()		
Minutes of Pumping	Peristattic Pump	p (🔌 Sub	mersible Pump () Other/Spec	cify ()	
Volume of Water Removed 44, 440	Pump Type;	(secte	c \ 4-			
District Co. C. C.			~	A THE		
Did Well Go Dry? Y N	Samples coilect	ted by same met	thod as evacuation	? N (specify	")	•
,		ted by same met	~	. /		DAFTER
Water Quality Meter Type(s) / Serial Numbers: 1	Samples collect	sp. Cond.	thod as evacuation プリチャル く Turbidity	. /		SV
Water Quality Meter Type(s) / Serial Numbers: Pump Total Water Time Rate Gallons Level	Samples collect Temp. pH (Celsius)	Sp. Cond.	Turbidity (NTU)	N)/HACH DO (mg/l)	ORP (mV)	
Water Quality Meter Type(s) / Serial Numbers: Pump Total Water Rate Gallons Level Fv(L/min.) Removed (ft TIC)	Samples collect	sp. Cond.	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump	Samples collect Temp. pH (Celsius)	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV)	SV
Water Quality Meter Type(s) / Serial Numbers:	Samples collect Temp. pH (Celsius)	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump Total Water Time Rate Gallons Level (sv(L/min.)) Removed (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 2.04 1321 0.00 0.331 12.35	Samples collect Temp. pH (Celsius)	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Y ST Numbers: Pump Total Rate Gallons (styl/min.) Removed (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1323 100 0.331 12.35 1323 100 0.470 12.57	Samples collect Temp. pH (Celsius)	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: YSY (Name) Time Pump Rate Gallons Removed (ft TIC) Level (ft TIC) 1317 150 0.040 1.81 1322 125 0.295 12.04 1321 100 0.331 12.35 1323 100 0.470 12.51 1231 100 0.470 12.51 1231 100 0.100 13.82	Samples collect Temp. pH (Celsius) [3%]* {0.1 units}*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: VSF (Name) Time Pump Rate Gallons Removed (ft TIC) Level (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1327 100 0.331 12.35 1327 100 0.470 12.59 1337 100 0.470 12.59 1337 100 0.470 12.59 1337 100 0.102 13.82 1357 100 0.125 13.83	Samples collect Collection Temp. pH (Celsius) [3%]* [0.1 units]* (Celsius) [3%]* [0.4 units]*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: VSF (Name) Pump Total Rate Gallons (sy(L/min.)) Level (ft TIC) 1317 150 0.040 11.81 1322 125 0.205 12.04 1321 100 0.331 12.35 1323 100 0.470 12.57 1331 100 0.133 12.35 1334 100 0.135 13.82 1359 100 0.135 13.34 1359 100 0.367 13.43	Samples collect Temp. pH (Celsius) [3%]* {0.1 units}*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: VSF (Name) Time Pump Rate Gallons Removed (ft TIC) Level (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1327 100 0.331 12.35 1327 100 0.470 12.59 1337 100 0.470 12.59 1337 100 0.470 12.59 1337 100 0.102 13.82 1357 100 0.125 13.83	Samples collect Collection Temp. pH (Celsius) [3%]* [0.1 units]* (Celsius) [3%]* [0.4 units]*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Y Serial Numbers: Y Serial Numbers: Y Serial Numbers: Y Serial Numbers: Water Level (nt TIC) 1317 150 0.040 1.81 1.82 1.83 <	Samples collect Collection Temp. pH (Celsius) [3%]* [0.1 units]* (Celsius) [3%]* [0.4 units]*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: VSF (Name) Pump Total Rate Gallons (sy(L/min.)) Level (ft TIC) 1317 150 0.040 11.81 1322 125 0.205 12.04 1321 100 0.331 12.35 1323 100 0.470 12.57 1331 100 0.133 12.35 1334 100 0.135 13.82 1359 100 0.135 13.34 1359 100 0.367 13.43	Samples collect Collection Temp. pH (Celsius) [3%]* [0.1 units]* (Celsius) [3%]* [0.4 units]*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Y Serial Numbers: Y Serial Numbers: Y Serial Numbers: Y Serial Numbers: Water Level (nt TIC) 1317 150 0.040 1.81 1.82 1.83 <	Samples collect Collection Temp. pH (Celsius) [3%]* [0.1 units]* (Celsius) [3%]* [0.4 units]*	sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) 52 68 713	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Value Pump Total Water Rate Gallons Level (sv(L/min.)) Removed (st TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1321 100 0.331 12.35 1323 100 0.470 12.57 1231 100 0.123 13.82 1354 100 0.135 13.82 1359 100 0.135 13.94 1404 100 0.919 13.51 1409 100 1.13 15.60 1414 100 1.24 13.72 1414 100 1.24 13.72 1414 100 1.24 13.72 1414 100 1.25 13.72 1414 100 1.53 13.72	Samples collect IVS 55 (4.4.3) Temp. pH (Celsius) [3%]* [0.1 units]* [4.85 (4.8.2) [4.71 (4.8.2) [4.77 (4.8) [4.87 (4.80) [4.97 (4.8) [4.78 (4.80) [4.73 (4.78) [4.66 (4.78)	Sp. Cond. (mS/cm) [3%]* 2.242 2.217 2.172 2.077	Turbidity (NTU) [10% or 1 NTU]* 53 71 73 59 191 75 146 35	N / HACH DO (mg/l) [10% or 0.1 mg/l]* 8.90 6.42 5.43 4.60 4.25 3.63 3.68	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: ✓ ✓ ✓ ✓ Time Pump Rate Gallons Removed (ft TIC) Level (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1321 100 0.331 12.35 1331 100 0.470 12.51 1331 100 0.125 13.82 1354 100 0.125 13.82 1359 100 0.135 13.94 1359 100 0.125 13.94 1404 100 0.199 13.51 1409 100 1.2 5.00 1414 100 1.2 5.00 1414 100 1.2 3.72 1414 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 <td>Samples collected at 3- to 5</td> <td>Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals</td> <td>Turbidity (NTU) [10% or 1 NTU]* 55 123 50 191 157 146 35 31 170 191 157 146 35 31 35 35 36 37 36 37 37 36 37 37 37 38 37 38 38 38 38 38</td> <td>DO (mg/l) [10% or 0.1 mg/l]</td> <td>ORP (mV) [10 mV]*</td> <td>SV</td>	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU]* 55 123 50 191 157 146 35 31 170 191 157 146 35 31 35 35 36 37 36 37 37 36 37 37 37 38 37 38 38 38 38 38	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump Total Rate Gallons Level (v(L/min.)) Removed (ft TIC) 1317 150 0.040 1.81 1322 135 0.205 12.04 1331 100 0.331 12.35 1331 100 0.331 12.35 1331 100 0.331 12.35 1354 100 0.125 13.82 1359 100 0.125 13.34 1359 100 0.125 13.34 1404 100 0.125 13.51 1404 100 1.24 3.51 1414 100 1.24 3.72 1414 100 1.390 1.390 *The stabilization criteria for each field parameter (three consecutions)	Samples collect IVS 55 (4.4.3) Temp. pH (Celsius) [3%]* [0.1 units]* [4.85 (4.8.2) [4.71 (4.8.2) [4.77 (4.8) [4.87 (4.80) [4.97 (4.8) [4.78 (4.80) [4.73 (4.78) [4.66 (4.78)	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 70 315 i) is listed in each of	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: ✓ ✓ ✓ ✓ Time Pump Rate Gallons Removed (ft TIC) Level (ft TIC) 1317 150 0.040 1.81 1322 125 0.205 12.04 1321 100 0.331 12.35 1331 100 0.470 12.51 1331 100 0.125 13.82 1354 100 0.125 13.82 1359 100 0.135 13.94 1359 100 0.125 13.94 1404 100 0.199 13.51 1409 100 1.2 5.00 1414 100 1.2 5.00 1414 100 1.2 3.72 1414 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 1404 100 1.5 3.72 <td>Samples collected at 3- to 5</td> <td>Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals</td> <td>Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 70 315 i) is listed in each of</td> <td>DO (mg/l) [10% or 0.1 mg/l]</td> <td>ORP (mV) [10 mV]*</td> <td>SV</td>	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 70 315 i) is listed in each of	DO (mg/l) [10% or 0.1 mg/l]	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump Total Rate Gallons Level (v(L/min.)) Removed (ft TIC) 1317 150 0.040 1.81 1322 135 0.205 12.04 1331 100 0.331 12.35 1331 100 0.331 12.35 1331 100 0.331 12.35 1354 100 0.125 13.82 1359 100 0.125 13.34 1359 100 0.125 13.34 1404 100 0.125 13.51 1404 100 1.24 3.51 1414 100 1.24 3.72 1414 100 1.390 1.390 *The stabilization criteria for each field parameter (three consecutions)	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 70 315 i) is listed in each of	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV
Pump Total Water Water Rate Gallons Level (ft TIC) 1317 150 0.040 11.81 1322 25 0.205 2.04 1321 00 0.331 2.35 1323 100 0.470 12.51 1324 100 0.470 12.51 1325 100 0.470 12.51 1325 100 0.470 12.51 13.82 13.59 100 0.435 13.82 13.59 100 0.435 13.82 1404 100 0.6199 13.51 1409 100 1.24 13.72 1419 100 1.24 13.72 1419 100 1.24 13.72 1419 100 1.24 13.72 1419 100 1.24 13.72 1419 100 1.24 13.72 1419 100 1.25 13.95 13.95 13	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 76 416 315 315 315	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 76 416 315 315 315	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV
Nater Quality Meter Type(s) / Serial Numbers: Sample 2017 Serial Numbers: Seri	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 247 2. 247 2. (73 2. (74) 2. (77) -minute intervals	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 76 416 315 315 315	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV
Water Quality Meter Type(s) / Serial Numbers: Pump	Samples collected at 3- to 5	Sp. Cond. (mS/cm) [3%]* 2. 242 2. 217 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 2. (93) 3. (93) 3. (93) 4. (93) 4. (93) 5. (93) 6. (93)	Turbidity (NTU) [10% or 1 NTU] 52 81 73 50 191 157 144 76 416 315 315 315	10% or 0.1 mg/l) [10% or 0.1 mg/l) [10% or 0.2 mg/l) [10% or 0.1 mg/l)	ORP (mV) [10 mV]*	SV

BROWN STREET PROPERTY, NORTH ADAMS, MASSACHUSETTS

		8-6		_	Site Name	GMA	. 4			
Key No.		(Samp	ling Personnel	JAP				
PID Bac	kground (ppm)				Date	10[8] OT	7			
Well He	adspace (ppm)			_	Weather	Overc	ast >>	10's "F		
WELL INFOR	MATION	_					Sample Time	_ 1513	•	
Reference	e Point Marked?	Y N	and the same of th				Sample ID	78-	60	
Height of	Reference Point		Meas, From	GROWN	\triangleright		Duplicate ID		-	
	Well Diameter	3"		*			" MS/MSD		1	
Scree	en Interval Depth	3-181	Meas. From	BUS	na.		Split Sample ID		•	_
w	ater Table Depth	11.38	Meas. From	TIC	_					
	Well Depth	16-31	Meas. From	TIC	_	Required	Analytica	Parameters:	Collected	
Length (of Water Column		· Ø			(X)	VOCs	(Std. list)	(X)	
Volume	of Water in Well	22809	jal			()	VOCs	(Exp. list)	()	
Intake Depth	of Pump/Tubing	12.5	Meas. From	TIC	_	(%)	S	VOCs	(X)	
						()	PCB	s (Total)	()	
	nt Identification:	_				()		Dissolved)	(X)	
	ner (PVC) Casin(Outer (Protective)	•				() /*•••		rganics (Total)	()	
Grade/BGS: G		Outing				(×)		nics (Dissolved) de (Dissolved)	(' >)	
						(><)		de (Dissolved) de (Dissolved)	(\mathbf{x})	
Redevelop?	Y(N)							s/PCDFs	(X)	
	, See					()	Pesticide	s/Herbicides	(**)	
						()		Attenuation	()	
EVACUATION	INFORMATION					\sim	Other	(Specify) Satticki	(X)	
	ump Start Time							Sallicae	•	
	ump Stop Time				Evacuation Mot	hod: Bailer () Dladdor D			
	ites of Pumping				Peristaltic Pum		•			
		24,44	cel		Pump Type:	(scote	omersible Pump () Other/Spec	city ()	
	id Well Go Dry?	Y (N')	I					? Ý N (specif)	Δ	- ·
	-		Steel	0 : A		41		`\ [y
vvater Quality	//deter Type(s) / S	·		<u> </u>	Su #3		144 J		TURBI	DIMETER
T i	Pump	Total	Water	Temp.	pН	Sp. Cond.	Turbidity	″ po'	ORP	SIG
Time	Rate	Gallons				(mS/cm)		/max/15		1 1 m 2 3 m 1 1 m 1
1317	I Carl Inoin	1 1	Level	(Celsius)	IO 4 unital#	f20/3*	(NTU)	(mg/l)	(mV)	020200
	(FV(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTU]*	1	[10 mV]*	1020200 1
1277	150 155	Removed	(n TIC)	1 '	[0.1 units]*		l '	1	[10 mV]*	الاعال عالى الا
1322	150	Removed C C40 O-205	(ATIC) 11.81 12.04	1 '		a side in the same of the same	(10% or 1 NTU)*	[10% or 0.1 mg/l]*	[10 mV]*	1 20 20x
1322	150 125 100	Removed 0.040 0.205 0.331	(ft TIC) 11.81 12.04 12.35	[3%]*	[0.1 units]*		[10% or 1 NTU]*	1	[10 mV]*	
1322	150 125 100 100	Removed 0.040 0.205 0.337 0.470	(RTIC) 11.81 12.04 12.35 12.59	1 '		a side in the same of the same	[10% or 1 NTU]* 53 68 37 7.3	[10% or 0.1 mg/l]*	[10 mV]*	10 20 200;
1322 1321 1333 1233	150 125 100	Removed 0.040 0.205 0.331 0.470 0.102	(ft TIC) 11.81 12.04 12.35	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	() 20 <u>20</u> ;
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.135	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	-	a side in the same of the same	[10% or 1 NTU]* 53 68 37 7.3	[10% or 0.1 mg/l]*	[10 mV]*	() 20 <u>20</u>
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.102	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	10 20 20 °
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.135	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	10 20 20;
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.125 0.967	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	10 20 20;
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.125 0.967	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	, 20 20
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.125 0.967	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	[10% or 0.1 mg/l]*	[10 mV]*	, 20 20 ,0
	150 125 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.125 0.967	(RTIC) 11.81 12.04 12.35 12.59	[3%]*	Section 1		[10% or 1 NTU]* 53 68 87 7.3 50	\$.70 6.42 5.43 4.60 4.25 3.63	[10 mV]*	, 20 20 ,0
1359 1359 1404 1409 1414 1419 1424	150 125 125 120 120 120 120 120 120 120 120 120 120	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.103 0.907 0.909 1.13 1.24 1.24 1.40	(#TIC) 11.81 12.04 12.35 12.57 13.82 13.83 13.51 13.73 13.73 13.73 13.70 13.75	16.85 16.71 16.71 16.71 16.71 16.71 16.66		2.242 2.217 2.217 2.193 2.191 2.017 2.017	10% or 1 NTU)* 553 18 31 7.3 50 191 157 146 21 70 410 35	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	1 20 20;
1354 1359 1404 1409 1414 1419 1424	150 125 100 100 100 100 100 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.100 0.103 0.907 0.909 1.13 1.24 1.24 1.40	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive co	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.193 2.191 2.017 2.017	[10% or 1 NTU]* 53 68 87 7.3 50	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	
1354 1359 1404 1409 1414 1419 1424	150 125 100 100 100 100 100 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive co	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 757 746 86 915 is listed in each of	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	ed ear
1354 1359 1404 1409 1414 1419 1424	150 125 100 100 100 100 100 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 757 746 86 915 is listed in each of	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	
1354 1359 1404 1409 1414 1419 1424	150 125 100 100 100 100 100 100 100	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 757 746 86 915 is listed in each of	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	
1354 1359 1404 1409 1414 1419 1424	150 125 100 100 100 100 100 100 100 on criteria for each	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 757 746 86 915 is listed in each of	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	10 20 2000 201
1354 1359 1404 1409 1414 1424 *The stabilization	150 125 100 100 100 100 100 100 100 100 100 10	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 757 746 86 915 is listed in each of	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	ed .
1359 1359 1404 1409 1414 *The stabilization OBSERVATION Adjush	150 125 100 100 100 100 100 100 100 100 100 10	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.71 16.71 16.71 16.71 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.141 2.677 2.677	10% or 1 NTU * 53 48 81 73 50 191 157 146 86 96 96 96 96 96 96 96 96 96 96 96 96 96	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	
1359 1359 1404 1409 1414 1419 1424 The stabilization OBSERVATION Adjush SAMPLE DEST Laboratory:	150 125 100 100 100 100 100 100 100 100 100 10	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.84 16.84 16.66 16.66	(82 (83) (6.81) (6.78) (6.78) (6.78) (6.78) (6.78) (6.78) (6.78)	2.242 2.217 2.193 2.191 2.077 2.077	10% or 1 NTU * 53 48 81 73 50 191 157 146 86 96 96 96 96 96 96 96 96 96 96 96 96 96	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	
1354 1359 1404 1409 1414 1419 The stabilization OBSERVATION AUJUST Laboratory: Delivered Via:	150 125 100 100 100 100 100 100 100 100 100 10	Removed 0.040 0.205 0.331 0.470 0.100 0.135 0.907 0.907 1.13 1.20 1.40 1.53 ch field paramete	(ft TIC) 11.81 12.04 12.35 12.57 13.82 13.34 13.51 5.60 13.72 13.95 r (three consecutive consecutive)	16.85 16.71 16.84 16.84 16.66 16.66	(.82 (.87 (.81 (.78 (.78 (.78 (.78)	2.242 2.217 2.193 2.191 2.077 2.077	10% or 1 NTU * 53 48 81 73 50 191 157 146 86 96 96 96 96 96 96 96 96 96 96 96 96 96	\$.70 6.42 5.43 4.65 3.68	[10 mV]*	

Well No. 78-6	Site Name	GMA4
	Sampling Personnel	JAP.
	Date	10/8/07
	Weather	_CVercast

WELL INFORMATION - See Page 1

1		D	T-4-1	100.0	X Temp	K	K -	T	T	10
	Time	Pump Rate	Total	Water	remp.	PH	Sp. Cond.	Turbidity	DO	K ORP
	THRE	///min.)	Gallons Removed	Level (ft TIC)	(Celsius) [3%]* ,	[0.1 units]*	(mS/cm) [3%]*	(NTU)	(mg/l)	(mV)
t	1429	(100	1 . (do	14.01	16.73	(0.78	2-054	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	[10 mV]*
ı	14.34	100	1 49	14.05				23	3-68	-74.4
.42	1439		1 550	14.13	16.80	4.78	2.043	<u> </u>	3.48	-50.3
		100	1.13	71111	16.85	C. 75	2017	Щ	3.07	-54.4
2.19	1444	100	130	214.15	16.85	6:74	2.010	8	2.45	- 70.7
2•{T	1449	100	1 · (S()	14.19	16:17	6.74	2.010	10	1.73	- 75.1
- >	1429	100	2.35	14.20	16.70	6.74	2011	13	1.38	80.0
	1455	100	2.42	14.22	16.68	10.74	2.614	27	1.11	-82.9
L	14.58	100	2.5/	14.22	16.74	10.74	がら、パ	18	1.03	-80.
	1501	100	2.59	14.22	1675	1. 72	2.013	il	0.910	-56.2
	15.64	100	2.66	14.27	16.79	(n. 73	2,010	9	0.86	
F	15.07	100	2.74	14 77	16.87	10.7.2	$\frac{2.002}{2.002}$	4	0.17	-50.6
ľ	15.10	100	2.85	14.22	16.90	10.71	1.495	4	0.78	70.1
ŀ	(X) C	-100		17.00	16:10	<u> </u>			0.78	-57.1
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OBSERVATIONS/SAMPLING METHOD DEVIATIONS
1

Well No.	110 4	to GI	44-6	_ Si	ite/GMA Name	CE P.H	sheld	GMA 4	
Key No.		4		Samp	ling Personnel				
PID Bac	kground (ppm)				Date		107		
Well He	adspace (ppm)				Weather	Cloud	4 low	70'5	
WELL INFOR	MATION						Sample Time		>
Referenc	e Point Marked?	? Y N					Sample ID	GMA4-	lo
Height of	Reference Poin		Meas. From		***		Duplicate ID		
	Well Diamete						MS/MSD		
Scree	en Interval Depth		3 Meas. From		_		Split Sample ID		
W	ater Table Depth		Meas. From						
	Well Depth	1 4 4	Meas. From	TIC		Required	Analytica	Parameters:	Collected
-	of Water Column		_			( <b>X</b> )		(Std. list)	$(\mathcal{X})$ .
	of Water in Wel					( )		(Exp. list)	( )
таке Бери	or Pump/rubing	~12.0C	Meas, From	7 20	_	( <b>X</b> )		VOCs ·	$(\mathcal{X})$
Pafarance Poi	nt Identification:					( ) , w. ,		s (Total)	( )
	ner (PVC) Casin	a				( <b>X</b> )		Dissolved)	$(\mathcal{X})$
·	Outer (Protective	-				( X )		rganics (Total)	( )
Grade/BGS: G		) outling		•		( )		nics (Dissolved)	( <b>X</b> )
0.440.200.						( <b>x</b> ' )		de (Dissolved) de (Dissolved)	( )
Redevelop?	y (N)					(X)	-	us/PCDFs	( <b>)</b> (
•	•					( <b>X</b> )		s/Herbicides	(بر)
						( )		Attenuation	( )
						( <b>x</b> )		(Specify)	
	INFORMATION					· A '	Solfic		(ید)
P	ump Start Time	1135					50 111		
P	ump Stop Time	12/3	55		Evacuation Me	thod: Bailer (	) Bladder F	ump ( )	2
Minu	ites of Pumping	140	min		Peristaltic Pum	p <b>X</b> () Sul	bmersible Pump (		cify ( )
Volume of V	Vater Removed	6.0 9.11	DN1 203	<del>1), 4</del>	Pump Type:		Pump		., ( )
D;	id Well Go Dry?	$\vee$ $\bigcirc$	OL 425		Samples collec	ted by same me	thod as evacuatio	n? (Y) N (specif	·y)
	Water Quality N	fleter Type(s) / S	erial Numbers:	451-556				sulim eter	
<u> </u>			1			T	······································	<del></del>	
Time	Pump	Total	Water	Temp.	рН	Sp. Cond.	Turbidity	DO	ORP
Time	HL Rate (Ł/min.)	Gailons Removed	Level (ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	(mg/l) [(0%)or 0.1 mg/l]*	(mV) [10 mV]*
1140	250	0.33	10.81	15.02	6.92	1.301	C 2.0	200	209, 7
1145	200	0.59	10.80	15.00	6.91	1,301		4 10 0	$-\alpha \cup \iota_{I}$
115D		0				1,001	4 1-3	5 101.2	
		17-83	10.80	14.94	10.91	1,301		5 forts	180.2
1155		0-85	10.80		6.91	1,301	3 1.0	64.to	180.2 166.3
1155		_	~	14,92	6,91	1,301 1,304	3 1.0 2 0.7	69, to 568	180.2 166.3 146.0
	`	1-11	10.81		, ,	1,301 1,304 1,305	3 1.0 2 0.7 2 0.6	69, to 568	180.2 166.3 46.0 140.6
1200		1.11 1.37 1.63	10.81 10.82	14,92 14,93 14,97	6.91	1,301 1,304 1,305 1,311	3 1.0 2 0.7 2 0.6 2 0.5	64.to 568 96-3 44.9	180.2 166.3 146.0
1200	200	1-11 1-37 1-63 1-89	10.81 10.81 10.82 10.82	14,93 14,93 14,93 14,93	6.91	1,301 1,304 1,305 1,311 1,314	3 1.0 2 0.7 2 0.6	64.to 568 96-3 44.9	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214	200 on criteria for ea	1-11 1-37 1-63 1-89 2-15	10.81 10.82 10.82 10.82	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 46.0 140.6
1200 1205 1210 1214		/- // /- 37 /- 63 /- 89 Z-15 ch field paramet	10.81 10.81 10.82 10.82 10.81	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214 The stabilization	NS/SAMPLING	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214	NS/SAMPLING	/- // /- 37 /- 63 /- 89 Z-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214 The stabilization	NS/SAMPLING	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214 The stabilization	NS/SAMPLING	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214 *The stabilization OBSERVATION SQY	NS/SAMPLING I	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0
1200 1205 1210 1214 *The stabilization OBSERVATION SAMPLE DEST	NS/SAMPLING ( Y) PLC (	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0 122.8
1200 1205 1210 1214 • The stabilization OBSERVATION SAMPLE DEST Laboratory:	MOITANIANITANITANITANITANITANITANITANITANI	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 14,92	6.91 6.91 6.90 6.90	1,301 1,304 1,305 1,311 1,314 1,314	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0 122.8
1200 1200 1210 1214 *The stabilization OBSERVATION SAMPLE DEST Laboratory: Delivered Via:	NOJEMPENER MOLEO MOITEMIT LOZ LOZ	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 utive readings c	6.91 6.91 6.90 6.90 lo.90	1,304 1,305 1,311 1,314 1,314 5-minute interva	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0 122.8
1200 1205 1210 1214 The stabilization SCAY  SAMPLE DEST Laboratory: Delivered Via:	MOITANIANITANITANITANITANITANITANITANITANI	1-11 1-37 1-63 1-89 2-15 ch field paramet	10.81 10.82 10.82 10.81 er (three consectations	14,93 14,93 14,93 14,93 utive readings c	6.91 6.91 6.90 6.90	1,304 1,305 1,311 1,314 1,314 5-minute interva	3 1.0 2 0.7 2 0.6 2 0.5 1 0.5	64.6 568 96.3 44.9 504.5	180.2 166.3 146.0 140.6 128.0 122.8

Well No	Site/GMA Name	GEPHSREID/GMA4
	Sampling Personnel	KIC.
	Date	10/8/07
	Weather	10W 70'S Cloudy

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	<b>pH</b> [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1220	300	2:46	10.82			1.314		13:7	117,6
12 25	200	2-67	10.81	14.94	6.90	1.318		8- <del>3-4</del>	115.4
1230	200	2.93	10.81	14.99	6.90	1,318	i	63.3	113.3
1235		3.19	10.81	14.97	690	1.318	ł .	43.7	112,0
1240		3-45	10.81	14.95	6.90	1,319		3 <del>3.0</del>	111, \$
1245	4	3-71	10.81	15.00	6.90	1.319		3 3-0	1.11=
1250		SAM		The same of the sa	the same of the sa	350		And the same of th	-
				·					
					WWW				
	,				····				
							***		
						i		Ļ	

* The stabilization criteria for each field parameter (three consec	cutive readings collected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	(
-	

Well No.	H781	3 - 16		Si	ite/GMA Name	GE Pi	Hsfield/	GHA4	
Key No.	·	EX-37		_ Sampi	ling Personnel	K/C.	•		
	kground (ppm)	***************************************		_	Date	10/1	0/07	_	
Well He	adspace (ppm)			-	Weather	-58°C	1000	4	
WELL INFOR	MATION						Sample Time	1600	
Reference	e Point Marked	? Y N						11781	5-15
Height of	Reference Poin		_ Meas, From		<del>-</del>		Duplicate ID		
	Well Diamete		_				MS/MSD	Table of the same	
Scree	en Interval Depth	10-10	Meas. From	Ground	_		Split Sample ID	- North States	
VV		15.8	7 Meas. From		~				
	Well Depth		Meas. From	TIL	_	Required		Parameters:	Collected
	of Water Column		·			$(\mathcal{X})$		(Std. list)	(X)
Volume	of Duman Clabica	0.05	~110V	TIL		( )		(Exp. list)	( )
intake Deptin	or Pump/Tubing	17,00	_ ivieas. From			(X)		VOCs	( <b>X</b> )
Reference Poi	nt Identification:					( )		s (Total)	( )
	ner (PVC) Casin	a				(A)		Dissolved)	( <b>X</b> )
	Outer (Protective	_				( )		rganics (Total)	( )
*	Ground Surface	) odomy				( <i>X</i> )	_	inics (Dissolved) de (Dissolved)	( <b>X</b> )
	3.04.14 04.1400						•	de (Dissolved) de (Dissolved)	( )
Redevelop?	Y(N)					(X) (X)	•	os/PCDFs	( X )
•	_					(1)		s/Herbicides	( <b>x</b> )
						( )		Attenuation	( )
						( <i>X</i> )		(Specify)	( , )
EVACUATION	INFORMATION					`./		Fide	· <b>x</b> )
P	ump Start Time	1510	-				201	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Р	ump Stop Time	1800	_		Evacuation Me	thod: Bailer (	) Bladder F	Pump ( )	
Minu	ites of Pumping	170	_		Peristaltic Pum	p(X) _ Sul	bmersible Pump (	) Other/Spe	cify ( )
Volume of V	Water Removed		_		Pump Type:	- Creé	Pumis		,
D	id Well Go Dry?	/ ¬							
U	ia well Go Diy?	$\vee$ (N),	por ain	べつった	Samples collec	ted by same me	thod as evacuatio	n? (Y) N (specif	y)
D	Í	Y (N)	160 MANAGE	nost Dat p	omp ro	ted by same me			•
NOOMAN ACCOUNTS	Í	Y N N N N N N N N N N N N N N N N N N N	COVEYCHE (ALV)  COVEYCHE  COVEYCHE	721-22	Samples collections of the colle	ted by same me		n? (Y) N (specif	•
No. of the second secon	Í	Y (N) Meter Type(s) / So	POOF CALVICE erial Numbers:	YSI-SS	Samples collections of the colle	sp. Cond.			•
Time	Water Quality N	Total Gallons	erial Numbers;  Water  Level	Temp. (Celsius)	pH	- Alav	4 Z100	P Twhile	mutic
No. of the second secon	Water Quality N	Total	erial Numbers:	757 - 353 Temp.	16-MP3	Sp. Cond.	ム マクロ / Turbidity (NTU)	DO Tookide	ORP ORP
No. of the second secon	Water Quality N	Total Gallons	Water Level (ft TIC)	Temp. (Celsius)	pH	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l)	ORP (mV)
No. of the second secon	Water Quality N	Total Gallons	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH	Sp. Cond. (mS/cm)	ム マクロ / Turbidity (NTU)	DO (mg/l)	ORP (mV)
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH  [0.1 units]*	Sp. Cond. (mS/cm)	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l)	ORP (mV)
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) (10% or 1 NTU)* //O 38	DO (mg/l)	ORP (mV) [10 mV]*
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*  //O 38 21/21	DO (mg/l)	ORP (mV) [10 mV]*
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*  //O 38 21/21	DO (mg/l)	ORP (mV) [10 mV]*
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*  [0.2 4 5 7 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Sp. Cond. (mS/cm) [3%]*  2.247 2.256 2.366	Turbidity (NTU) [10% or 1 NTU]*  //O 38 21/21	DO (mg/l)	ORP (mV) [10 mV]*
No. of the second secon	Water Quality N	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]* [0.2 (0.6) [0.6] [0.6]	Sp. Cond. (mS/cm) [3%]*   2.247  2.256  2.366  2.373	Turbidity (NTU) [10% or 1 NTU]*  //O 38 21/21	DO (mg/l)	ORP (mV) [10 mV]*
Time 15/5 1530 1535 1530 1635 1540 1545 1550	Pump Rate (Na/min.)	Total Gallons Removed  OCAA  D.198  D.792  D.495	water Level (ft TIC)  → 0.397	Temp. (Celsius) [3%]* 	pH [0.1 units]* [0.4 units]* [0.6 units]* [0.6 units]* [0.6 units]* [0.6 units]*	Sp. Cond. (mS/cm) [3%]*  2.247 3.256 2.247 2.273 2.273	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.2	ORP (mV) [10 mV]*
Time  1515  1530  1535  1530  1635  1540  1550  The stabilization	Pump Rate Wimin.)  75 75 75 00 criteria for ea	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]* [0.4 units]* [0.6 units]* [0.6 units]* [0.6 units]* [0.6 units]*	Sp. Cond. (mS/cm) [3%]*  2.247 3.256 2.247 2.273 2.273	Turbidity (NTU) [10% or 1 NTU]*  //O 38 21/21	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.2	ORP (mV) [10 mV]*
Time  1515  1530  1535  1530  1635  1540  1550  *The stabilization  OBSERVATION	Pump Rate Wimin.)  75 75 75 00 criteria for ea	Total Gallons Removed  OCAA  D.198  D.792  D.495	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.2	ORP (mV) [10 mV]*
Time  1515  1530  1535  1530  1635  1540  1550  The stabilization	Pump Rate Wimin.)  75 75 75 00 criteria for ea	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]* [0.4 units]* [0.6 units]* [0.6 units]* [0.6 units]* [0.6 units]*	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.2	ORP (mV) [10 mV]*
Time  1515  1530  1535  1530  1635  1540  1550  *The stabilization  OBSERVATION	Pump Rate Wimin.)  75 75 75 00 criteria for ea	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*
Time  1515  1530  1535  1530  1635  1540  1550  *The stabilization  OBSERVATION	Pump Rate Wimin.)  75 75 75 00 criteria for ea	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*
Time  15/5  /530  1535  1530  1535  1540  1540  *The stabilization OBSERVATION Inhal particular Constants  SAMPLE DEST	Pump Rate Na/min.)  75 75 75 75 45 On criteria for ea NS/SAMPLING I	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*
Time  15/5  /530  1535  1530  1535  1540  1540  *The stabilization observation in hal phase phas	Pump Rate (Na/min.)  75 75 75 75 45 On criteria for ea NS/SAMPLING I	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*
Time   5 5   530   535   530   535   530   535   540   550  *The stabilization observation in halp place to be stable of the control of the c	Pump Rate Rate Rate Rate Rate Rate Rate Rate	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]* 	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*  2.247  2.247  2.256  2.273  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 12 69 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*
Time  15/5  /530  1535  1530  1535  1540  1540  *The stabilization observation in hal phase phas	Pump Rate Rate Rate Rate Rate Rate Rate Rate	Total Gallons Removed  OCO OCO OCO OCO OCO OCO OCO OCO OCO O	Water Level (ft TIC)  > 0.397  > 396  er (three consec	Temp. (Celsius) [3%]*  1454 14.54 14.43 14.41 14.41 14.37 utive readings of	pH [0.1 units]*  [2,69 [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66] [2,66]	Sp. Cond. (mS/cm) [3%]*   2.247  2.247  2.256  2.373  2.273  5-minute interva	Turbidity (NTU) [10% or 1 NTU]*  //O 38  2 1/ 7.1 1 2 6.9 10 6.7 //O 6.8 9 6.7	DO (mg/l) [10% or 0.1 mg/l]*  369. 2 67.1 265.7 366.7	ORP (mV) [10 mV]*

Well No. H78B-15	Site/GMA Name	GEPHSTIELD/GMA4
3	Sampling Personnel	FIC T
	Date	10/10/07
	Weather	Cloudy 58°F

WELL INFORMATION - S	See Page 1
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Time	Pump Rate	Total Gallons	Water Level	Temp. (Celsius)	pН	Sp. Cond. (mS/cm)	Turbidity (NTU)	DO (mar/l)	ORP
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*		(mg/l) [10% or 0.1 mg/l]*	(mV) [10 mV]*
1555	75	0.594 at		14.33	6.59	2.273	9 6.70	[10% or 0.1 mg/l]*	146.1
⇒Sa	mplec	lat	1600						
	/								
		****							
								74 10	
									·
							· · · · · · · · · · · · · · · · · · ·		
:					v»				
									•
									***************************************

* The stabilizat	ion criteria for ea	sch field parame	ter (three consec	cutive readings of	collected at 3- to	5-minute interv	als) is listed in eac	h column heading.	
		METHOD DEVI						· ·	

BROWN	STREET	PROPERTY.	NORTH	ADAMS	MASSACUI	ICETT
DICORNA	O INCE!	PROPERII,	NOKIN	ADAMO.	MASSACHL	156   13

	Well No. 4788-16			Site Name	_ GN	W 4		
71 T	Key NoFX-37		Samplii	ng Personnel	JA	$\rho$		
	PID Background (ppm)			Date	10	110/07	<del>-,</del>	***************************************
	Well Headspace (ppm)	-	<del>-</del>	Weather	Cher		Riny 6	20 00 /
	(ррш)			MEGRIEI	- CVCF	- CCV 1 1 C	21-19	20 - 67
	WELL INFORMATION					Sample Time	1543	3
	Reference Point Marked? (Y) N	_				Sample ID	178 R	3-110
	Height of Reference Point 355	Meas From	GROWN	D		Duplicate ID		3
	Well Diameter 0'.75	7		4			1	
	Screen Interval Depth 4-14	7	Rie			MS/MSD		
		Meas. From				Split Sample ID		
	Water Table Depth 13.63	Meas. From	1//					
	Well Depth 17,00	Meas. From	710		Required	Analytica	Parameters:	Collected
	Length of Water Column 331	,7 			( <b>X</b> )	VOCs	(Std. list)	( <b>X</b> )
	Volume of Water in Well 2.0890	<u>Uhon</u>					(Exp. list)	
	Intake Depth of Pump/Tubing	Meas. From	TIC		, ,			( )
	141	5			( )		VOCs	( )
	Reference Point Identification:				( )		s (Total)	( )
	TIC: Top of Inner (PVC) Casing				( )		Dissolved) rganics (Total)	( )
	TOC: Top of Outer (Protective) Casing				( )		- ,	( )
	Grade/SGS: Ground Surface				( )		nics (Dissolved) de (Dissolved)	( )
	<b></b>				( )	•	de (Dissolved) de (Dissolved)	( )
	Redevelop? Y (N				( )		s/PCDFs	( )
					( )		s/Herbicides	( )
					( )		Attenuation	( )
					( )		(Specify)	( )
	EVACUATION INFORMATION				, ,	0 4751	(oposij)	( )
	Pump Start Time 1455							
	Pump Stop Time 15547			Supposition Made	node Deiles (	) Block S		
	Minutes of Pumping 5.3			vacuation Meth		•	(Fin)	
	Volume of Water Removed 71,30	res D		eristattic Pump	<i>-</i>	bmersible Pump	V	ecify ( )
		Len		ump Type:		unp 2	$(\pm 7)$	
	Did Well Go Dry? Y (N	ai.	S	amples collecte	ed by same me	thod as evacuation	? (Y) N (specif	fy)
	Water Quality Meter Type(s) / Serial Numbers:	X56 00	TO MIC	#> (r	120029	72)/HA	CHTUDE	INMETE
	D	7	, , , , , , , , , , , , , , , , , , ,		, , ,	7	SI CLUMS	
	Pump Total	Water	Temp.	pH \	Sp. Cond.	^ Turbidity	^ bo	
	Time Date O.U.				/mc/			ORP
	Time Rate Gallons	Level	(Celsius)	ì	(mS/cm)	(NTU)	(mg/l)	(mV)
123	(M./min.) Removed	(RTIC)	(Ceisius) [3%]*	[0.1 units]*	(113/cm) [3%]*	[10% or 1 NTU]*	(mg/l) [10% or 0.1 mg/l]*	(mV)
•	1/			[0.1 units]*	[3%]*	1		(mV)
•	(M./min.) Removed	(RTIC)		[0.1 units]*	[3%]*	[10% or 1 NTU]*		(mV)
•	14.59 125 G-100 1506 100 0-296	(RTIC)	[3%]*	[0.1 units]*  - 7.50	1, 186 - [3%]*	[10% or 1 NTU]*		(mV)
•	1459 125 0-1018 1500 100 0-296 1511 125 0-482	(RTIC)	[3%]*	[0.1 units]*  7. 50 7. 40	1,186 - 1,186	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	(mV)
•	14.59 125 G-100 1506 100 0-296	(RTIC)	[3%]*	7.50 7.40 7.29	1, 186 - [3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/l]*	(mV) [10 mV]* 
•	1459 125 0 100 1506 100 0 0 296 1514 125 0 655 1514 100 0 655	(RTIC)	[3%]*	7.50 7.40 7.29 7.23	1,186 - 1,186	10% or 1 NTUP	[10% or 0.1 mg/l]*	(mV)
•	1459 125 0-1018 1500 100 0-296 1511 125 0-482	(RTIC)	[3%]*	7.50 7.40 7.29	1,186 - 1,186	10% or 1 NTUP	[10% or 0.1 mg/l]*	(mV) [10 mV]* 
•	1459 125 6-1019 1506 100 0-296 1516 100 0-615 1516 100 0-615 1521 100 0-879	(RTIC)	[3%]*	7.50 7.40 7.29	1,186 - 1,186	10% or 1 NTUP	[10% or 0.1 mg/l]*  4. 14  1.34  1.26  1.25	(mV) [10 mV]* 199.5 198.6 200.6 201.7
•	1459 125 0 100 1506 100 0 0 296 1514 125 0 655 1514 100 0 655	(RTIC)	14.15 13.44 13.84 13.85 13.85	7.50 7.40 7.29	1,186 - 1,186	10% or 1 NTUP	[10% or 0.1 mg/l]*	(mV) [10 mV]* 199.5 198.6 200.6 201.7
•	1459 125 6-1019 1506 100 0-2916 1516 100 0-615 1516 100 0-615 1521 100 0-979 1529 100 0-979 1539 100 1.09	(RTIC)	14.15 13.49 13.89 13.83 13.83 13.83	7.50 7.40 7.29	1,186 - 1,186	(10% or 1 NTU)*	[10% or 0.1 mg/l]*  4. 14  1.34  1.26  1.25	(mV) [10 mV]* 199.5 198.6 200.6 201.7
•	1459 125 6-1016 1506 100 0-296 1516 100 0-615 1516 100 0-615 1521 100 0-879 1529 100 0-959 1532 100 1.04 1535 100 1.04	(RTIC)	14.15 13.44 13.84 13.85 13.85	7.50 7.40 7.29	1,186 - 1,186	(10% or 1 NTU)*	[10% or 0.1 mg/l]*	(mV) [10 mV]* 199.5 198.6 200.6 201.7
•	1459 125 6-1019 1506 100 0-2916 1516 100 0-615 1516 100 0-615 1521 100 0-979 1529 100 0-979 1539 100 1.09	(RTIC)	14.15 13.49 13.89 13.83 13.83 13.83	7.50 7.40 7.29	3%  	10% or 1 NTU  10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*  4.14  1.34  1.26  1.25  1.25  1.25  1.25	(mV) [10 mV]* 199.5 198.6 200.6 201.7
	1459 125 6-1018 1506 100 0-296 1516 100 0-65 1521 100 0-45 1521 100 0-979 1529 100 0-95 1532 100 1.04 1535 100 1.20	13.71 13.71 13.71 13.71 13.71 13.71 13.71 13.71 13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.85 13.80 13.77	- 7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40	3%  	(10% or 1 NTU)*	[10% or 0.1 mg/l]*  4.14  1.34  1.26  1.25  1.25  1.25  1.25  1.25  1.25	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	1459 125 6-1018 1506 100 0-296 1516 100 0-65 1521 100 0-879 1521 100 0-979 1529 100 0-95 1532 100 1.04 1535 100 1.20	(RTIC)	13.44 13.84 13.84 13.84 13.85 13.85 13.85 13.85	7.50 7.40 7.29	3%  	(10% or 1 NTU)*	[10% or 0.1 mg/l]*  4.14  1.34  1.26  1.25  1.25  1.25  1.25	(mV) [10 mV]* 199.5 198.6 200.6 201.7
•	1459   125   02   1018   1506   100   125   03   1018   1506   100   03   1506   1506   100   03   1506   1506   100   03   1506   100   03   1506   1506   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	13.71 13.71 13.71 13.71 13.71 13.71 13.71 13.71 13.71 13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
	14.59   12.5   0.100   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   15.00   10.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	1459   125   02   1018   1506   100   125   03   1018   1506   100   03   1506   1506   100   03   1506   1506   100   03   1506   100   03   1506   1506   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	14.59   12.5   0.100   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   15.00   10.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	1459 125 G-100 1506 700 G-246 1506 700 G-246 1514 125 C-482 1514 100 G-65 1521 100 G-75 1529 100 G-75 1532 700 7.04 1538 700 7.20 1547 700 7.20	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	1459 125 G-100 1506 700 G-246 1506 700 G-246 1514 125 C-482 1514 100 G-65 1521 100 G-75 1529 100 G-75 1532 700 7.04 1538 700 7.20 1547 700 7.20	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	14.59   12.5   0.100   15.00   10.05   15.00   10.05   15.00   10.05   15.00   10.05   15.00   10.05   15.00   10.00   15.00   10.00   15.00   10.00   15.00   10.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   10.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
, 132 ), 317	14.59   12.5   10.09   15.00   10.05   15.00   10.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	Memored   Memo	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	10% or 1 NTU! 10 10 10 10 10 10 10 10 10 10 10 10 10	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	14.59   12.5   10.09   15.00   10.05   15.00   10.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	13.44 13.44 13.84 13.85 13.85 13.85 13.85 13.86 13.77 13.74	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	3%   1.186  1.181  1.176  1.173  1.174  1.167  1.165  1.163  1.163	i is listed in each c	[10% or 0.1 mg/l]*  4.14  1.39  1.46  1.32  1.15  1.20  1.23  1.21  1.21  olumn heading.	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	Memored   Memo	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	[3%]*  14.15  13.44  13.87  13.85  13.85  13.86  13.77  13.74  tive readings colle	7.50 7.40 7.29 7.23 7.18 6.45 6.01 5.93 5.90 5.89	[3%]*  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 17 (c)  1, 16 (c)  1, 17 (c)  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 18 (c)  1, 1	i is listed in each c	[10% or 0.1 mg/l]*  4.14  1.39  1.46  1.32  1.15  1.20  1.23  1.21  1.21  olumn heading.	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4
•	Main   Removed   14.59   12.5   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.10   1.1	(R TIC)  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71  13.71	[3%]*  14.15  13.44  13.87  13.85  13.85  13.86  13.77  13.74  tive readings colle	7.50 7.40 7.29 7.23 7.18 6.45 6.61 5.43 5.40 5.89	[3%]*  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 17 (c)  1, 16 (c)  1, 17 (c)  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 17 (c)  1, 17 (c)  1, 18 (c)  1, 18 (c)  1, 17 (c)  1, 18 (c)  1, 1	i is listed in each c	[10% or 0.1 mg/l]*	(mV) [10 mV]* 204.4 194.5 198.6 206.6 201.7 201.7 201.7 201.7 204.3 204.4

Well No	6 H7	<u> 8B - 17</u>	TR	:	Site/GMA Name	GE AL	45field/	GMA 4	
Key No	Ex:37	(2)		Sam	pling Personne	KLC	/		
	ckground (ppm				Date	iolilla	27-		
Well H	eadspace (ppm	)			Weathe			50°C	
WELL INFOR	RMATION						Sample Time	1645	
Referen	ce Point Marked	? (Ŷ) Ñ							17 17
Height o	f Reference Poin		Meas. Fron	n			Sample ID		-/+K-
ŭ	Well Diamete	V : VV		''			Duplicate ID		***************************************
Scre	en Interval Depti	143-		Ground			MS/MSC		
	/ater Table Depti				<del></del>		Split Sample ID		
	•	25,00				Demilion			
Length	of Water Column			'	<del></del>	Required		<u>l Parameters:</u>	Collected
	of Water in We					( <b>*</b> )		s (Std. list)	( <b>X</b> )
	of Pump/Tubing		Meas. From	Th		( )		(Exp. list)	( )
	· · · · · · · · · · · · · · · · · · ·	3 _ <u>z</u>	Wicas. Profi	'	_	( )		VOCs	( )
Reference Po	int Identification:					( )	PCB	s (Total)	( )
	iner (PVC) Casin					( )	PCBs	(Dissolved)	( )
	Outer (Protective	•				( )	Metals/Inc	rganics (Total)	( )
	Suiter (Frotective Ground Surface	) Casing				( )	Metals/Inorga	nics (Dissolved)	( )
Grade/DGS. (	Siouna Sunace					( )	EPA Cyan	de (Dissolved)	( )
Redevelop?	v 💫					( )	PAC Cyan	de (Dissolved)	( )
Kedevelop?	Y					( )	PCDE	s/PCDFs	( )
						( )	Pesticide	s/Herbicides	( )
						( )	Natural	Attenuation	( )
F1/4 G/14 F1/4 \						( )	Other	(Specify)	( )
	INFORMATION	d c au 200							. ,
	ump Start Time	7,00							
	ump Stop Time	1650			Evacuation Me	thod: Bailer (	) Bladder F	ump (💢	
	ites of Pumping	<u> 50</u>	none.		Peristaltic Pum	ıp ( ) Su	bmersible Pump (		ecify ( )
	Vater Removed	3.5901	20101		Pump Type:	Marsch	Mk-Systa	lan Oliva	50ny ( )
D	id Well Go Dry?	Y (N)			Samples collec	ted by same me	thod as evacuation	1? <b>()</b> N (speci	fic)
		-							'y <i>)</i>
	Water Quality M	leter Type(s) / S	Serial Numbers:	151-55	6MPs	Hach ZID	OP Ture	idinates	**************************************
	Pump	Total	Water	Temp.	рН	Sp. Cond.	Turbidity	50	
Time	Rate	Gallons	Level	(Celsius)		(mS/cm)		DO (===(l)	ORP
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	(NTU) [10% or 1 NTU]*	(mg/l)	(mV)
1605	25D		2 - 10-	(-,-,	[O.T disko]	[378]		[10% or 0.1 mg/l]*	[10 mV]*
11-117	300	0.33	15.45	1200			12		
11.10		0.66	15 72	1300	15.87	1.446	Q	10,30	218/
1615		0.99	15,61	12.91	15,00	1,445	- 2	5,55	217.4
1620		1-35	12,92	12.42	15,05	1,438	3	94.27	215,4
1625		1-65	16.00	12.95	14.61	1.434	3	6.24	312.7
1630		1-98	16.02	12.91	15,12	1.426	4	€484	211.0
1635		2.31	16.10	12.90	15,20	1.436	, 3	4.74	2099
1640	$\sqrt{}$	2-64	16.14	12.86	15.17	1.425	4	4.77	2097
* The stabilization	on criteria for eac	h field paramet	er (three consec	utive readings o	collected at 3- to	5-minute interval	ls) is listed in each	column heading	501.7
OBSERVATION	IS/SAMPLING N	ETHOD DEVIA	ATIONS				io) io notod iii caon	column neading.	
- L	moud	A 1 1 2	e 45						
<u> </u>	· · · · · ·		<u> </u>						
· · · · · · · · · · · · · · · · · · ·									
SAMPLE DEST									
Laboratory:		······································						- Comment	
Delivered Via: _							<i>-</i>	7//	,
Airbill #:							The same of the sa		nam (1 Million
					Field Sampling	Coordinator: 🧀	The same of the sa	9	
				i	Field Sampling	Coordinator:	7		

Well No							Hofield/c	2 / - ( 7 )	
•	o. 253 t			San	pling Personne				
	ckground (ppn eadspace (ppn	·		<del></del>	Date		1		
WON IT	esnabace (bbu	")		•	Weathe	Junn	7,750		
WELL INFOR	RIMATION					,	Sample Time	12:05	
Referen	ce Point Markec	17 (P) N						OPCA-MI	.1.1.17
Height o	of Reference Poi	nt "0.60"	Meas. From	n Ground			Ouplicate ID	,	<u> </u>
	Well Diamet	er 2"			Mining Prop.		MS/MSD		
Scre	en Interval Dep	m/0'- 25'	Meas. From	n Ground			Split Sample ID	~~~~~~~~~~	
	Vater Table Dept		Meas. From				opat oampie no		
		n 24-45'	Meas, Fron			Required	Analytica	Parameters:	Collected
	of Water Colum				<del></del>	( <b>X</b> )		(Std. list)	(X)
Volume	e of Water in We	1 2.98 ge				( 3		(Exp. list)	( )
ntake Depth	n of Pump/Tubin	g <u> 17-5"</u>	Meas. From	TIL		( × )		VOCs	(X)
						( )		s (Total)	( )
ference Po	int Identification:	:				( <b>X</b> )		Dissolved)	(JE)
: Top of In	ner (PVC) Casi	ng				( )		rganics (Total)	( )
C; Top of (	Outer (Protective	e) Casing				( <b>&gt;&lt;</b> )		nics (Dissolved)	(se)
ade/BGS: (	Ground Surface					( )		de (Dissolved)	( )
	~					(X)		de (Dissolved)	(بحر)
develop?	Y (N)					(×)	PCDE	s/PCDFs	$(\mathbf{x})$
						( )	Pesticide	s/Herbicides	( )
						( )	Natural .	Attenuation	( )
					# × .	(×)		(Specify)	(×)
	INFORMATION Pump Start Time						suffide		
	,								
	oump Stop Time				Evacuation Me	ethod: Bailer	( ) Bladder P	nub ( )	
	utes of Pumping				Peristaltic Pun		ibmersible Pump (	) Other/Spe	ecity ( )
Volume of V D	Water Removed lid Well Go Dry?	4 90 110	Serial Numbers:	YS1-5:	Pump Type: Samples collec	Geo Pu	mp Z ethod as evacuation	1? (N (speci	fy)
Volume of V D	Water Removed lid Well Go Dry?	4 90 110		Temp.	Pump Type: Samples collec	Geo Pu	mp Z ethod as evacuation Z100 P T Turbidity	n? ON (speci www.idim.ct.	ORP
Volume of V D	Water Removed lid Well Go Dry? Water Quality M	4 90 No Y (V)	Serial Numbers:		Pump Type: Samples collect	Geo Pucted by same me	mp Z ethod as evacuation Z100 P T	DO (mg/l)	ORP (mV)
Volume of V D	Water Removed old Well Go Dry? Water Quality M Pump Rate	4 90 llo Y (1) Wester Type(s)/S Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius)	Pump Type: Samples collect	Geo Purched by same me Hach  Sp. Cond.  (ms/cm)	mp Z sthod as evacuation Z (OO P T Turbidity (NTU) [10% or 1 NTU]*	n? ON (speci www.idim.ct.	ORP
/olume of V D: Time	Water Removed bid Well Go Dry?  Water Quality Mater	4 90 llo Y Wester Type(s)/5 Total Gallons Removed 0.13	Water Level (ft TIC)	Temp. (Celsius) [3%]*	Pump Type: Samples collect Sto M P 5  pH  [0.1 units]*	Geo Purched by same methods (ms/cm) [3%]*	mp Z eithod as evacuation Z (OD P T Turbidity (NTU) [10% or 1 NTU]*	17 N (speci www.idim.ct. DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Volume of V	Water Removed id Well Go Dry?  Water Quality Mater Quality	4 90 llo y (1)  Wester Type(s)/S  Total Gallons Removed 0.13 0.26	Water Level (ft TIC) 6-50 6-90	Tomp. (Celaius) [3%]*	Pump Type: Samples collect SG M P3  pH  [0.1 units]*	Geo Pucted by same in Hach  Sp. Cond. (mS/cm) [3%]*  7.840	mp Z eithod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8 7	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV)
Volume of V	Water Removed id Well Go Dry?  Water Quality I Pump Rate (L/min.)  100 m l 100 m l	4 90 llo y (1)  Wester Type(s)/S  Total Gallons Removed  0.13  0.26  0.40	Water Level (ft TIC) 6-50 6-90 7-02	Temp. (Gelajus) [3%]*	Pump Type: Samples collect Sto M P 5  pH  [0.1 units]*	Geo Purched by same methods (ms/cm) [3%]*	mp Z eithod as evacuation Z (OD P T Turbidity (NTU) [10% or 1 NTU]*	17 N (speci www.idim.ct. DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Time  7:50 2:55 2:00	Water Removed id Well Go Dry?  Water Quality Mater Quality	4 90 llo y (1)  Wester Type(s)/S  Total Gallons Removed 0.13 0.26	Water Level (ft TIC) 6.50 6.90 7.02	Tomp. (Celaius) [3%]*  /9.30 /9.45 /9.30	Pump Type: Samples collect SG M P3  pH  [0.1 units]*  8.22  8.27  8.38	Geo Pucted by same in Hach  Sp. Cond. (mS/cm) [3%]*  7.840	mp Z eithod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8 7	DO (mg/l) [10% or 0.1 mg/l]*	7RP (mV) [10 mV]*
Time  7:50 2:55 2:00	Water Removed id Well Go Dry?  Water Quality I Pump Rate (L/min.)  100 m l 100 m l	4 90 llo y (1)  Wester Type(s)/S  Total Gallons Removed  0.13  0.26  0.40	Water Level (ft TIC) 6-50 6-90 7-02	Temp. (Gelajus) [3%]*  /9.30 /9.45 /9.30	Pump Type: Samples collect Solve M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60	Geo Punted by same me Hach  Sp. Cond. (ms/cm) [3%]*  7.840  7.837	mp Z eithod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8 7	17 (Special Notation of Notati	7RP (mV) [10 mV]* ~ 224.0 209.0 /89.5
Time  2:50 2:55 2:00 2:05	Water Removed and Well Go Dry?  Water Quality Mater Qualit	4 90 llo y (1)  Wester Type(s)/5  Total Gallons Removed 0.13 0.26 0.40 0.53	Water Level (ft TIC) 6.50 6.90 7.02	Tomp. (Celaius) [3%]*  /9.30 /9.45 /9.30	Pump Type: Samples collect Solve M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60	Geo Pucted by same in Hach  Sp. Cond. (mS/cm) [3%]*  7.840  7.837  7.762	mp Z eithod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8 7 5	17 (N (speci 200 (mg/l) [10% or 0.1 mg/l]*  6.45 5.50 5.04 4.92	ORP (mV) [10 mV]*  224.0 209.0 /89.5
Volume of V	Water Removed bid Well Go Dry?  Water Quality Mater Qualit	Heter Type(s)/S  Fotal Gallons Removed  O.13  O.26  O.40  O.53  O.66	Water Level (ft TIC) 6-50 6-90 7-02 7-12 7-25	Temp. (Cetajus) [3%]*  19.30 19.45 19.30 19.46 19.23	Pump Type: Samples collect Solve M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60	Geo Purched by same in Heich  Sp. Cond. (mS/cm) [3%]*  7.840 7.837 7.762 7.660 7.588	mp Z athod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4	17 PN (speci Lwb/Jimct. DO (mg/l) [10% or 0.1 mg/l]* 	7RP (mV) [10 mV]* 224.0 209.0 /89.5 /72.6
Time  2:50 2:55 2:00 2:05 2:10	Water Removed and Well Go Dry?  Water Quality Mater Qualit	4 90 llo y (1)  Heter Type(s)/5  Total Gallons Removed 0.13 0.26 0.40 0.53 0.66 0.79	Water Level (ft TIC) 6.50 6.90 7.02 7.12 7.25 7.32	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54	Pump Type: Samples collect Samples collect Samples collect Samples collect PJ  pH  [0.1 units]*  8.22. 8.27  8.38  8.60  8.61  8.73	Geo Purited by same interest by same int	mp Z eithod as evacuation Z (OO P T  Turbidity (NTU) [10% or 1 NTU]*  8 7 5 4 5 6	DO (mg/l) [10% or 0.1 mg/l]*  6.45  5.50  5.04  4.92  4.86  4.63	7RP (mV) [10 mV]*  224.0 209.0 189.5 172.6 159.5
Time  2:50 2:55 2:00 2:05 2:15 2:15 2:15 2:15 2:15 2:15 2:15 2:1	Water Removed id Well Go Dry?  Water Quality Mater Quality	4 90 llo y (1)  Heter Type(s)/S  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06	Water Level (ft TIC) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47	Tomp. (Cetaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36	Pump Type: Samples collect SG M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84	Geo Pucted by same in Hach  Sp. Cond. (mS/cm) [3%]*  7.840  7.837  7.762  7.660  7.588  7.360  7.242	mp Z eithod as evacuation Z (OD P T Turbidity (NTU) [10% or 1 NTU]*  8 7 5 4 5 6 5	17 PN (speci 17 PN (speci 18	7RP (mV) [10 mV]* 224.0 209.0 /89.5 /72.6
Time  2:50 2:55 1:00 2:75 2:75 2:25 e stabilization	Water Removed and Well Go Dry?  Water Quality Mater Quality Material Materi	4 90 llo y (1)  Wester Type(s)/5  Total Gallons Removed 0.13 0.26 0.40 0.53 0.66 0.79 0.92 1-06 ch field paramet	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.12 7.25 7.32 7.41 7.47 er (three consec	Temp. (Celajus) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sutive readings	Pump Type: Samples collect SG M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84	Geo Purched by same interverse Heich  Sp. Cond. (mS/cm) [3%]*  7.840  7.837  7.762  7.660  7.588  7.360  7.242  5-minute interverse	mp Z athod as evacuation  Z (00) P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  us) is listed in each	17 PN (speci 17 PN (speci 18	7RP (mV) [10 mV]*  224.0 209.0 189.5 172.6 159.5
Time  7:50 2:55 1:00 2:55 1:00 2:75 1:20 1:25 e stabilization 3:4	Water Removed and Well Go Dry?  Water Quality Mater Quality Material Materials Materials for early SAMPLING Materials Materi	4 90 llo y (I)  Wester Type(s)/5  Total Gallons Removed 0.13 0.26 0.40 0.53 0.66 0.79 0.92 1-06 ch field paramet	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.12 7.25 7.32 7.41 7.47 er (three consectations	Temp. (Celajus) [3%]*  19.30 19.45 19.30 19.46 19.23 19.36 sutive readings To 14.11	Pump Type: Samples collect Sold M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to Purpa: C	Geo Purched by same intervention of the character of the	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	DO (mg/l) [10% or 0.1 mg/l]*  6.45  5.50  5.04  4.92  4.86  4.63  4.58  column heading.	7RP (mV) [10 mV]* 224.0 209.0 /89.5 /72.6 /59.5 /47.1 /35.0
Time  2:50 2:55 1:00 2:55 1:00 2:75 1:20 1:25 e stabilization 3:4	Water Removed and Well Go Dry?  Water Quality Mater Quality Material Material Removed Material Rem	Heter Type(s)/5  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06  ch field paramet  WETHOD DEVI  Clear, 0  why: 21.	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collected  For MPS  PH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to  Purpo: Water:  Material	Geo Purited by same intervel by same intervel by same intervel factor of the control of the cont	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 189.5 172.6 159.5 147.1 135.0
Time  Time  2:50 2:55 2:00 2:55 2:00 2:75 2:05 2:25 e stabilization Call	Water Removed and Well Go Dry?  Water Quality Mater Quality Material Material Removed Material Rem	4 90 llo y (I)  Wester Type(s)/5  Total Gallons Removed 0.13 0.26 0.40 0.53 0.66 0.79 0.92 1-06 ch field paramet	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collect Sold M P S  pH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to Purpa: C	Geo Purited by same intervel by same intervel by same intervel factor of the control of the cont	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 189.5 172.6 159.5 147.1 135.0
Time  Time  2:50 2:55 2:00 2:05 2:15 2:25 e stabilization  CA - A	Water Removed and Well Go Dry?  Water Quality Mater Quality Material Mater	Heter Type(s)/5  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06  ch field paramet  WETHOD DEVI  Clear, 0  why: 21.	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collected  For MPS  PH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to  Purpo: Water:  Material	Geo Purited by same intervel by same intervel by same intervel factor of the control of the cont	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 /89.5 /72.6 /59.5 /47.1 /35.0
Time  2:50 2:55 2:00 2:55 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:15 2:00 2:00 2:00 2:00 2:00 2:00 2:00 2:0	Water Removed and Well Go Dry?  Water Quality Mater Quality Material for each Material f	Heter Type(s)/5  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06  ch field paramet  WETHOD DEVI  Clear, 0  why: 21.	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collected  For MPS  PH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to  Purpo: Water:  Material	Geo Purited by same intervention of the character of the	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 189.5 172.6 159.5 147.1 135.0
Time  2:50 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:55 2:00 2:00	Water Removed and Well Go Dry?  Water Quality Mater Quality Material for early SAMPLING Material for early SAMPLIN	Heter Type(s)/5  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06  ch field paramet  WETHOD DEVI  Clear, 0  why: 21.	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collected  For MPS  PH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to  Purpo: Water:  Material	Geo Purited by same intervention of the character of the	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 189.5 172.6 159.5 147.1 135.0
Time  2:50 2:55 2:00 2:55 2:00 2:15 2:15 2:20 2:25 2:25 2:25 2:25 2:25 2:25 2:2	Water Removed and Well Go Dry?  Water Quality Mater Quality Material M	Heter Type(s)/5  Total Gallons Removed  0.13  0.26  0.40  0.53  0.66  0.79  0.92  1.06  ch field paramet  WETHOD DEVI  Clear, 0  why: 21.	Water Level (ft Tic) 6.50 6.90 7.02 7.12 7.25 7.32 7.41 7.47 ter (three consectations 10 r/css 65' 6	Temp. (Gelaius) [3%]*  19.30 19.45 19.30 19.46 19.23 19.54 19.36 sulve readings Tn.;+;wl	Pump Type: Samples collected  For MPS  PH  [0.1 units]*  8.22  8.27  8.38  8.60  8.61  8.73  8.84  collected at 3- to  Purpo: Water:  Material	Geo Purited by same intervention of the character of the	mp Z eithod as evacuation  Z (00 P T  Turbidity (NTU) [10% or 1 NTU]*  8  7  5  4  5  6  5  ks) is listed in each	17 (P) N (speci 12 N (speci 12 N (speci 13 N (speci 14 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 16 N (speci 17 N (speci 18 N (speci 1	7RP (mV) [10 mV]* 224.0 209.0 189.5 172.6 159.5 147.1 135.0

Well No.	OPCA-MW-IR	Site/GMA Name	GE Pittsfind & GMA-4
	Sa	ampling Personnel	GAE
		Date	10/5/07
		Weather	34nnv, 750F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	, Water Level (ft TIC)	Temp. (Celsius) [3%]*	<b>pH</b> [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
11:30	100ml	1.19	7.55	19.06	9.89	6.877	4	4.52	118.2
11:35	100 ml	1-32	7.60	19.11	9.61	6.828	4	4.65	113.5
11:40	100ml	1.45	7.63	18.83	9.48	6.762	4	4-90	110.8
11:45	100ml	1.59	7.67	18.97	9.63	6.676	4	5.02	105.7
11:50	100ml	1-72	7.71	19.10	9.75	6.617	3	5.03	101.0
11:55	100ml	1.85	7.73	18.93	9.75	6.656	3	4.99	97.5
12:00	100ml	1.98	7.74	19.39	9.82	6.661	3	4.71	93.7
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,									
The stabilization								,	

The stabilization criteria for each field parameter (three consecutive readings of	ollected at 3- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS	(
	(

Well N	o. OPCA-	MW	· Z.		Site/GMA Name	OEP,	· Hs field -	CMA-4	
_	o. <u>FX-3</u>			Sam	pling Personnel	-			
	ickground (ppn				Date		L		
Weil H	leadspace (ppn	n) <u>0</u>	······································	-	Weather	Overen	+, some	ight rain,	65°F
WELL INFO								13:20	
	nce Point Market			6				OPCA-M	
Height	of Reference Poi		Meas. From	Ground			Duplicate ID	GMA-4-0	UP-1
C	Well Diamet een Interval Dep		7	<i>/</i> ,			MS/MSE		·
	Vater Table Dep		77	1 6-06-4			Split Sample ID	- August 1	
•		th 25.15'	Meas. From	<del></del>	<del></del>	Required	A 4	<b>.</b>	
Length	of Water Colum					(X)		il Parameters: s (Std. list)	Callected (K)
Volum	e of Water in We	1 0.85an	llon			( )		(Exp. list)	(~)
	h of Pump/Tubin		Meas. From	T12		( <b>X</b> )		VOCs	(A()
						( )		is (Total)	( )
Reference Po	oint Identification:	:				(★)	PCBs	(Dissolved)	( سحر )
·	nner (PVC) Casi	•				( )	Metals/Ind	rganics (Total)	( )
	Outer (Protective	e) Casing				( <b>x</b> ')	Metals/Inorga	anics (Dissolved)	(X)
Grade/BGS;	Ground Surface	•				( )	EPA Cyan	ide (Dissolved)	( )
Redevelop?	v (N)					( <b>×</b> )		ide (Dissolved)	( <b>*</b> )
(wastarop)	. (					( <b>x</b> )		Ds/PCDFs	( <b>)</b>
						( )		s/Herbicides	( )
						( ) (× )		Attenuation (Specify)	( )
EVACUATION	NINFORMATIO	4				`~ '	3 n Hide	(орозну)	( <b>%</b> )
	Pump Start Time								
	Pump Stop Time		overlina.		Evacuation Me	thod: Bailer	() Bladderi	oump (≰)	
	utes of Pumping				Peristattic Pum		ibmersible Pump (		ecity ( )
	Water Removed		ellon.		Pump Type:	Marsa	5-1k-545+	em One	
ξ	Old Well Go Dry?	Y (N')"			C				
	7	_			Samples collec	ted by same me	ethod as evacuatio	n? 🏈 N (speci	fy)
	•	Meter Type(s) / S	Serial Numbers:	<u> 751-5.</u>				n? ()' N (speci	
	•	Meter Type(s) / S	Serial Numbers:	751-5.		Hach		<u> </u>	to
Time	Water Quality I	<del></del>			STG MPS		- Z/DOP 7	Turbidine	ORP
Time	Water Quality I	Total	Water	Temp.	STG MPS	Mach Sp. Cond.	Turbidity	DO (mg/l)	to
iZ:≥0	Water Quality I Pump Rate	Total Gallons	Water Level	Temp. (Celsius)	SG MPS	Sp. Cond.	Turbidity (NTU)	00 (mg/l)	ORP (mV)
12120 12120	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond.	Turbidity (NTU) [10% or 1 NTU]	00 (mg/l)	ORP (mV)
12120 12130 12135	Pump Rate (Umin.)	Total Gallons Removed	Water Level (ft TIC) 20-18	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
12:20 12:30 12:35 12:40	Pump Rate (Umin.)  100 m  100 m  100 m	Total Gallons Removed D.Z.6 D.53 D.66 D-79	Water Level (ft TIC) 20.18 20.33 20.38 20.43	Temp. (Cetaius) [3%]* 	pH [0.1 units]*  7.33 7.46 7.43	Mach (mS/cm) [3%]*  1.690 1.706 1.714	Turbidity (NTU) [10% or 1 NTU]  7  6  6	00 (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*  198. Z 197.8
12:20 12:30 12:35 12:45 12:45	Pump Rate (L/min.)  /OOm /OOm /OOm /OOm /OOm /OOm /OOM /OOM	Total Gallons Removed D. Z.6 0.53 0.66 0.79 0.92	Water Level (ft TIC) 20.18 20.33 20.38 20.43 20.52	Temp. (Colsius) [3%]* 	pH [0.1 units]* 7.33 7.46 7.43 2.43	Mach  Sp. Cond.  (mS/cm)  [3%]*  1.706  1.714  1.718	Turbidity (NTU) [10% or 1 NTU]  7  6  4  4  3	12.05	ORP (mV) [10 mV]*
12:20 12:30 12:35 12:45 12:45 12:45	Pump Rate (L/min.)  100 m  100 m  100 m  100 m  100 m	Total Gallons Removed  0.26  0.53  0.66  0.79  0.92  1.06	Water Level (ft TIC) 20.18 20.33 20.38 20.43 20.52 20.57	Temp. (Cotaius) [3%]* 	pH [0.1 units]*  7, 33 7, 46 7, 43 7, 43 7, 58	Mach  Sp. Cond. (mS/cm) [3%]*  1.690 1.706 1.714 1.718 1.721	Turbidity (NTU) [10% or 1 NTU]  7  6  6	12.05 9.09 7.56	ORP (mV) [10 mV]* - 198. Z 197.8 196.6
12:20 12:30 12:35 12:45 12:45 12:50 12:55	Pump   Rate (L/min.)   100 m	Total Gallons Removed D. Z.6 0.53 0.66 0.79 0.92 1.06 1.19	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60	Temp. (Colsius) [3%]* 	pH [0.1 units]* 7.33 7.46 7.43 2.43 7.58 7.56	Mach  Sp. Cond.  (mS/cm)  [3%]*  1.706  1.716  1.718  1.721	Turbidity (NTU) [10% or 1 NTU]  7  6  4  4  3	12.05 9.09 7.56 6.95 6.05	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9
12:20 12:30 12:35 12:45 12:45 12:50 12:55 13:60	Pump Rate (L/min.)  100 m	Total Gallons Removed  0.26  0.53  0.66  0.79  0.92  1.06  1.19	Water Level (ft TIC) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*	Temp. (Cotaius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81	pH [0.1 units]*  7. 33 7.46 7.43 7.43 7.58 7.56 7.53	Mach  Sp. Cond. (mS/cm) [3%]*  1.690  1.706  1.714  1.718  1.721  1.712	- Z/DOP 7  Turbidity (NTU) [10% or 1 NTUP  7  6  6  4  3 3 2	12.05 9.09 7.56 6.95 6.95 6.05 5.80	ORP (mV) [10 mV]* 198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 17:55 13:00 The stabilizatio	Pump Rate (L/min.)  100 m	Total Gallons Removed  D. Z.6  D. S.3  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter METHOD DEVI	Water Level (ft TIC) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62* ter (three consec	Temp. (Cotaius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81	pH [0.1 units]*  7. 33 7.46 7.43 7.43 7.58 7.56 7.53	Mach  Sp. Cond. (mS/cm) [3%]*  1.690  1.706  1.714  1.718  1.721  1.712	- Z/DOP 7  Turbidity (NTU) [10% or 1 NTU]  7  6  4  3 3	12.05 9.09 7.56 6.95 6.95 6.05 5.80	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:45 12:45 12:50 12:55 13:60 The stabilization	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. S.3  D. 66  D. 79  D. 92  I. D.6  I. 19  I. 3 Z  ch field parameter  METHOD DEVI	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62* ter (three consecutions	Temp. (Cotaius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81	pH [0.1 units]*  7. 33 7.46 7.43 7.43 7.58 7.56 7.53	Mach  Sp. Cond. (mS/cm) [3%]*  1.690  1.706  1.714  1.718  1.721  1.712	- Z/DOP 7  Turbidity (NTU) [10% or 1 NTUP  7  6  6  4  3 3 2	12.05 9.09 7.56 6.95 6.95 6.05 5.80	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 12:55 13:00 The stabilization	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81  sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	Mach (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 12:55 13:00 The stabilization	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81  sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	Mach (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 12:50 17:55 13:60 The stabilizationservation The stabilization The	Pump Rate (LJmin.) 100 ml	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81  sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	Mach (mS/cm) [3%]* 	- Z/DOP 7  Turbidity (NTU) [10% or 1 NTUP  7  6  6  4  3 3 2	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 12:55 13:60 The stabilization Enable Worts  SAMPLE DEST	Pump Rate (LJmin.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81  sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	Mach (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:50 12:50 12:50 13:00 The stabilization Enable Worts  SAMPLE DEST Laboratory:	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77  15.16  15.01  14.72  14.57  14.62  14.81  sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	Mach (mS/cm) [3%]* 	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:45 12:50 17:55 13:00 The stabilization SAMPLE DEST Laboratory: Delivered Via:	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77 15.76 15.01 14.72 14.57 14.62 14.81 sutive readings of	pH [0.1 units]*  7, 33 7.46 7.43 7.58 7.56 7.53  collected at 3- to	1.706 1.719 1.721 1.708 5-minute interva	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1
12:20 12:30 12:35 12:40 12:45 12:45 12:50 17:55 13:00 The stabilization Entire Worts  SAMPLE DEST Laboratory:	Pump Rate (L/min.)  100 m  100	Total Gallons Removed  D. Z.6  D. 53  D. 66  D. 79  J. 92  J. 06  J. 19  J. 3 Z  ch field parameter  METHOD DEVI.  C/c	Water Level (ft Tic) 20.18 20.33 20.38 20.43 20.52 20.57 20.60 20.62*  ter (three consectations ador/css	Temp. (Colsius) [3%]*  15.77 15.76 15.01 14.72 14.57 14.62 14.81 sutive readings of	PH [0.1 units]*  7, 33 7, 46 7, 43 7, 58 7, 56 7, 53  collected at 3- to	1.706 1.719 1.721 1.708 5-minute interva	Turbidity (NTU) [10% or 1 NTU]  7  6  4  3  3  2  I	DO (mg/l) [10% or 0.1 mg/l]*  1 2.05  9.09  7.56  6.95  6.47  6.05  5-80  column heading.	ORP (mV) [10 mV]*  198. Z 197.8 196.6 192.9 170.1

Well No. OPCA -MW-Z	Site/GMA Name	GE P. H. fi-11 - GMA-Y
	Sampling Personnel	GAR
	Date	10/8/07
	Weather	Overcast, some light rain 650F
		, , , , , , , , , , , , , , , , , , , ,

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. ' (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
13:05	100ml	1.45	NA	14.49	7.55	1.701	I	5.93	149.5
13:10	100ml	1.59	NA	14.65	7.47	1.695	۷.	5-57	153-6
13:15	100ml	1.72	NA	14.66	7.45	1.691	2	5.46	150.4
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			***************************************						
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* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.  OBSERVATIONS/SAMPLING METHOD DEVIATIONS											
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Well N	10. OPCA.	-MW-3			Site/GMA Nan	GEP,	Hsfill/	GMA-4	
	lo. <u>NA</u>			San	pling Personn	H GAZ/	AJS		
	ackground (pp			<del></del>	· Dai	10/9/0	7		
AAGII I	ieadspace (pp	m) <u>0</u>			Weath	or Over	ust, 65-	70-01=	
WELL INFO		<u>~</u>					Sample Tim	e 16:30	
	nce Point Marke		~1°			•	Sample II	OPCA-M	W-3
Height	of Reference Po	int <u>-0.5</u>	O Meas, Fro	m Groune	1		Duplicate II		
0	Weil Diame		<del>7</del>				MS/MSI		
		oth 18'-21	<del></del>	m Gronau	<del></del> -		Split Sample II	, ~	
,		th 27.75							
Lengt		nn 6.07		m _/1C	<del></del>	Required	Analytic	al Parameters:	Collected
		el 0.980				( <b>X</b> )	,	is (Std. list)	( )
Intake Dept	th of Pump/Tubi	ng 24-71	Meas, From	n T/c		( 3		3 (Exp. list)	( )
						( <b>X</b> )		VOCs	( )
Reference Pr	oint Identification	y:				( )		Ss (Total)	( )
TIC: Top of I	nner (PVC) Cas	ing				(×)		(Dissolved)	( )
TOC: Top of	Outer (Protectiv	re) Casing				(X)		organics (Total) anics (Dissolved)	( )
Grade/BGS:	Ground Surface							ide (Dissolved)	( )
						( <b>x</b> )		ide (Dissolved)	( )
Redevelop?	Y(N)	•				(X)		Os/PCDFs	( )
						( )	Pesticide	s/Herbicides	( )
						( )	Natural	Attenuation	( )
EVACUATION	N INFORMATIO					(× )		(Specify)	( )
	Pump Start Time						Julfide		
	-	· · · · · · · · · · · · · · · · · · ·							
,	utes of Pumpino				Evacuation M			Pump ∤≺	
	Water Removed		novek.		Peristatic Pur	np ( ) Su	Ibmersible Pump	) Other/Sp	ecify ( )
	id Well Go Dry?				Pump Type:	7673	Challe -31	stem One	
Time	Pump Rate	Total Gallons	Serial Numbers:	Temp.	56 M P	Sp. Cond.	Turbidity (NTU)	DP Turb	ORP
	(L/min.)	Removed	(ft TIC)	[3%]*	[0.1 units]*	[3%]*	[10% or 1 NTUP	,	(mV) [10 mV]*
15:20	100ml	0.26	22./1	fan.		~	21	-	110 110
15:30	100ml	0-53	22-31	17.80	6.87	0.633	11	12.51	206.7
15:35	100ml.	0.66	22.41	17.61	6.91	0.634	10	3.22	202-5
15:40	100ml	0.79	22.49	16.29	7.03	0.635	7	2./2	
15:45	100ml	0.92	22.62		7.15	0.636	4	1.51	197.0 192.Z
15:50	100 ml	1-06	22.64	15.14	7.18	0.641	4	1.ZZ	190.3
15.55	100 ml	1.19	22.69	15.00	7.18	0.658	3	1.04	186.7
16:00	100ml	1.32	22.67	14.86	7.16	0.677	4	1.00	183.6
The stabilization	on criteria for ea	ch field paramet	er (three consec	utive readings o	ollacted at 2 to	E minuta internal	s) is listed in each	7.00	103.6
-00 - 10 - 10 - 10 - 10 - 10 - 10 - 10	ACMONIME L'HIGHE	METHOD DEV	ATIONS	dure readings c	olected at 3+ (0	o-minute interval	s) is listed in each	column heading.	
Init,	il Pur	go: Linh	+ -6-0W	nodo-	loss			7.12	
Final	Purge	· Clear	, odorles.	3		***************************************		······································	
,					<del></del>				
AMPLE DEST									
Laboratory:									
Delivered Via:	UPS							A.	24
Airbill #:				, F	ield Sampling	Coordinator;	- Anna		
					-	-		<i>y</i>	
							V 11		

Well No.	0	P	CA	-M	W-3	
FECH MO.		_		100	AA . A	

Site Name	GE Pittsfill / GMA-4
	GAR/AIS
Date	10/9/01
Weather	Over Chit. 65-7005

WELL INFORMATION - See Page 1

Time	Pump	Total	Water	Temp.	pH	Sp. Cond.	Turbidity	DO	ORP
Time	Rate (L/min.)	Gallons Removed	Level (ft TIC)	(Celsius)	70.4	(mS/cm)	(NTU)	(mg/i)	(mV)
10:-				[3%]*	[0.1 units]*	[3%]*		[10% or 0.1 mg/l]*	[10 mV]*
16:05	100ml	1.45	22.70	14.71	7.15	0.693	4	0.89	180.5
		// 37	22.73	14.45	7.14	0.705	3	0.89	177.9
16:15	100 M	1.72			7.13	0-719	2	0.87	175.4
16-20		1.05	22.71		7.10	0.726	3	0.84	173-0
16.25	160m)	1.98	22.73	14.50	7.10	0.736	2	0.90	170.3
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									<del></del>
					V-11,14-17,				
					-				

three consecutive readings collected at 5- to 5-minute intervals) is listed in each column heading.
OBSERVATIONS/SAMPLING METHOD DEVIATIONS

## BROWN STREET PROPERTY, NORTH ADAMS, MASSACHUSETTS

Weil N	· <u>Olc</u> A	-MW-	4		Site Name	Frank	44			
Key No		,		 Sampli	ng Personnel		Aρ			<del></del>
	ickground (ppm			_	Date	10 90	7			
Well H	eadspace (ppm	)		***	Weather	Over	rast,	70°F_		
WELL INFOR	RMATION						Sample Time	The Con	105-110	05
Referen	nce Point Marked	? (Ÿ) N						CPCA-M		
Height o	of Reference Poir	11 2 0.60	Meas. From	GROUND	٠		Duplicate ID	_	·	
*	Well Diamete	er <u>3</u> "					, MS/MSE			
Scre	en Interval Depti	h_/ <u>J</u> _ <del>J_</del>	Meas. From	B65			Split Sample ID	)		annay.
٧	Vater Table Depti	n 14.25	/	TIC						
	Well Depti		Meas. From	IIC_		Required	Analytica	il Parameters:	Collected	
	of Water Column	1/2	.0			$\langle \mathcal{N} \rangle$	VOC	s (Std. list)	(义)	
	of Water in Wel		•			( )	VOCs	(Exp. list)	( )	
Intake Dept	h of Pump/Tubing	<u>~/8</u>	Meas, From	_TIC_		$(\mathcal{S})$	s	VOCs	( <b>%</b> )	
Reference Po	int Identification:					( ) :		s (Total)	( )	
	ner (PVC) Casin	g				(\)		(Dissolved) rganics (Total)	(X)	
	Outer (Protective	) Casing				(' <b>)</b>		anics (Dissolved)	$(\mathbf{x})$	
Grade/BGS:	Ground Surface							ide (Dissolved)	( )	
Redevelop?	v (N)					$\langle X \rangle$	PAC Cyan	ide (Dissolved)	( <b>X</b> )	
	. 6							Ds/PCDFs	$(\mathbf{X})$	
						( )		s/Herbicides Attenuation	( )	
								(Specify)		
	INFORMATION							sufficie	, X,	
	Pump Start Time									
	Pump Stop Time	7 7 2 7				hod: Bailer (	) Bladder P	ump ( )		
	utes of Pumping Water Removed	209	. Ø		Peristaltic Pump	<b>/</b>	bmersible Pump (	) Other/Spe	cify ( )	
	id Well Go Dry?		9			geotec	thod as evacuation			-
_	a rion oo biy:	( / (% )		:	amples collect	ted by same me	dhad as avacuation	2 / V/) M /		
Mater Overthe	14.1 7		11 4 4 4 5 5 5		,	~ /		$\sim T_{\rm c}$		
Water Quality I		erial Numbers:	HACH		,	~ /	2000 25	$\sim T_{\rm c}$		MPS 43
	Pump	Total	Water	TURBID	,	2 (02C	2000 25 Turbidity	$\sim T_{\rm c}$		MPS #3
Water Quality I		Total Gallons	Water Level	Temp. (Celsius)	METER	Sp. Cond. (mS/cm)	2.000 25 Turbidity (NTU)	376) YS D0 (mg/l)	X ORP (mV)	MPS #3 (03C1461
	Pump Rate	Total Gallons Removed	Water Level (ñ TIC)	TURBID	METER	2 (02C	2000 25 Turbidity	376) YS	X 556	MPS #3 (0301461)
Time	Pump Rate	Total Gallons Removed O-O-O-O	Water Level (fit TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	2.000 25  * Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]	X ORP (mV)   [10 mV]*	MPS #3
Time 15,23 153[	Pump Rate (w(L/min.)	Total Gallons Removed O-026 0-238	Water Level (RTIC) 14.38	Temp. (Celsius) [3%]*	METER	Sp. Cond. (mS/cm) [3%]*	X Turbidity (NTU) [10% or 1 NTU]*	276) YS  DO  (mg/l)  [10% or 0.1 mg/l]  15. (72	X ORP (mV)	MPS #3 (0301461
Time 1523 1531 1531	Pump Rate (w(L/min.)	Total Gallons Removed 0.026 0.238 0.230	Water Level (R TIC) 14.38 14.56 14.67	Temp. (Celsius) [3%]*	pH [0.1 units]*  7.25  7.26	Sp. Cond. (mS/cm) [3%]*	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	376) YS  DO  (mg/l)  [10% or 0.1 mg/l]  15.02  9.2	X ORP (mV)   [10 mV]*	MPS #3 (0301461)
Time 15,23 1531 1536 1541	Pump Rate (w(L/min.)	Total Gallons Removed O-026 0-238	Water Level (RTIC) 14.38 14.56 14.67 14.77	Temp. (Celsius) [3%]* 15.18 15.09 15.33	pH [0.1 units]*  7.25  7.26  7.25	Sp. Cond. (mS/cm) [3%]* [.229] [.233]	X Turbidity (NTU) [10% or 1 NTU]*	376 YS  D6  (mg/l)  [10% or 0.1 mg/l]	X ORP (mV)   [10 mV]*	MPS #3 (0301461)
1523 1531 1534 1541 1541	Pump Rate (w.(.)min.) 100 125 100 100 100	Total Gallons Removed  0.046 0.238 0.310 0.502 0.434	Water Level (R TIC) 14.38 14.56 14.61 14.71	Temp. (Celsius) [3%]* 15.18 15.09 15.32	pH [0.1 units]*  7.25  7.26  7.25  7.26	Sp. Cond. (mS/cm) [3%]* 	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	376 YS  pe (mg/l) [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81	X ORP (mV)   [10 mV]*	MPS #3 (0301461
15:23 15:31 15:31 15:31 15:41 15:41 15:51	Pump Rate (w(L/min.) 100 125 100 100 100	Total Gallons Removed 0.024 0.238 0.310 0.502 0.434 0.707	Water Level (RTIC) 14.38 14.56 14.77 14.88 14.78	Temp. (Celsius) [3%)* 15.18 15.09 15.30 15.30	pH [0.1 units]*  7.25  7.26  7.25  7.25  7.25  7.27	Sp. Cond. (ms/cm) [3%]* [.23] [.23] [.23] [.23] [.245]	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	376 YS  DO  (mg/l)  [10% or 0.1 mg/l]   15.02  9.21  6.00	* ORP (mV) [10 mV]*  159.9 154.4 149.9 140.0	MPS #3 (0301461)
1523 1531 1534 1541 1541	Pump Rate (w(L/min.) 100 125 100 100 100 100	Total Gallons Removed 0.024 0.238 0.370 0.502 0.434 0.767 0.846	Water Level (RTIC) 14.38 14.50 14.61 14.77 14.77 14.77 14.98 15.04	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.28	pH [0.1 units]*  7.25  7.26  7.25  7.26	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259]	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	376 YS  pe (mg/l) [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81	1556 * ORP (mV) [10 mV]* - 159.9 154.4 149.9 140.8 138.7	MPS #3 (0301461)
1523 1531 1531 1534 1541 1546 1551 1554 1557	Pump Rate (w(L/min.) 100 125 100 100 100 100 100 100	Total Gallons Removed 0.024 0.228 0.310 0.562 0.434 0.767 0.846 0.725	Water Level (ft TIC) 14.38 14.56 14.77 14.77 14.98 15.09	Temp. (Celsius) (3%)* 15.18 15.09 15.30 15.28 15.28 15.23	pH  [0.1 units]*  7.25  7.26  7.25  7.25  7.27  7.20  7.19	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.259	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	576) YS  DO  (mg/l)  [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81  3.47  3.22	1599 1599 1599 1599 1599 1499 1499 1400 1400 13809 13604	MPS #3 (0301461)
15:23 15:31 15:31 15:31 15:41 15:41 15:51	Pump Rate (w(L/min.) 100 125 100 100 100 100	Total Gallons Removed 0.024 0.238 0.370 0.502 0.434 0.767 0.846	Water Level (RTIC) 14.38 14.50 14.61 14.77 14.77 14.77 14.98 15.04	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.28	pH [0.1 units]*  7.25  7.26  7.25  7.25  7.25  7.27	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259]	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	376 YS  pe (mg/l) [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81	1556 * ORP (mV) [10 mV]* - 159.9 154.4 149.9 140.8 138.7	MPS #3 (0301461)
1523 1531 1531 1534 1541 1546 1551 1554 1557	Pump Rate (w(L/min.) 100 125 100 100 100 100 100 100	Total Gallons Removed 0.024 0.228 0.310 0.562 0.434 0.767 0.846 0.725	Water Level (ft TIC) 14.38 14.56 14.77 14.77 14.98 15.09	Temp. (Celsius) (3%)* 15.18 15.09 15.30 15.28 15.28 15.23	pH  [0.1 units]*  7.25  7.26  7.25  7.25  7.27  7.20  7.19	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.259	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	576) YS  DO  (mg/l)  [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81  3.47  3.22	1599 1599 1599 1599 1599 1499 1499 1400 1400 13809 13604	MPS #3 (0301461
1523 1531 1531 1534 1541 1546 1551 1554 1557	Pump Rate (w(L/min.) 100 125 100 100 100 100 100 100	Total Gallons Removed 0.024 0.228 0.310 0.562 0.434 0.767 0.846 0.725	Water Level (ft TIC) 14.38 14.56 14.77 14.77 14.98 15.09	Temp. (Celsius) (3%)* 15.18 15.09 15.30 15.28 15.28 15.23	pH  [0.1 units]*  7.25  7.26  7.25  7.25  7.27  7.20  7.19	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.259 [.26]	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	576) YS  DO  (mg/l)  [10% or 0.1 mg/l]  15.02  9.21  6.00  4.81  3.47  3.22	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (0301461)
1523 1531 1534 1534 1541 1551 1551 1557 1600	Pump Rate (w(L/min.) 100 125 100 100 100 100 100 100 100 100	Total Gallons Removed 0.0.24 0.238 0.370 0.562 0.767 0.767 0.767 0.725	Water Level (RTIC) 14.38 14.56 14.77 14.88 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	576 YE  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (03C1461
15:23 15:31 15:31 15:31 15:41 15:51 15:54 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2.000 25  Turbidity (NTU) [10% or 1 NTU]*	576 YE  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (0301461)
15:23 15:31 15:31 15:31 15:41 15:51 15:54 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed 0.0.24 0.238 0.370 0.562 0.767 0.767 0.767 0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	576 YE  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS 43 (0301461
15:23 15:31 15:31 15:31 15:41 15:51 15:54 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	576 YE  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (03C1461)
15:23 15:31 15:31 15:31 15:41 15:51 15:54 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	376) YS  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (03C1461)
15:23 15:31 15:31 15:31 15:31 15:41 15:51 15:51 15:57 16:00	Pump Rate (w(L/min.) 100 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	376) YS  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (0301461)
15:23 15:31 15:31 15:31 15:31 15:41 15:51 15:51 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	376) YS  po (mg/l) [10% or 0.1 mg/l]	* ORP (mV) [10 mV]*  159.9 1.54.4 149.9 140.0 140.8 138.7 136.4	MPS #3 (0301461
15:23 15:31 15:31 15:31 15:31 15:41 15:51 15:51 15:57 16:00	Pump Rate (w(L/min.)) 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]* 15.18 15.09 15.32 15.30 15.23 15.23 15.17	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	376) YS  po (mg/l) [10% or 0.1 mg/l]  15.02  9.21 6.00 4.81 3.47 3.22 3-18  olumn heading.	SS(c)   ORP (mV)   (10 mV)   159.9   154.4   149.9   140.8   138.7   136.4   134.2	MPS #3 (0301461
15:23 15:31 15:31 15:31 15:31 15:41 15:51 15:51 15:57 16:00	Pump Rate (w(L/min.)) 100 125 100 100 100 100 100 100 100 100 100 10	Total Gallons Removed  0.094  0.238  0.310  0.562  0.434  0.767  0.784  0.725	Water Level (RTIC) 14.38 14.56 14.77 14.77 14.98 15.04 15.09 15.15	Temp. (Celsius) [3%]*  15.18 15.09 15.30 15.30 15.23 15.17 15.18	pH [0.1 units]* 7.25 7.26 7.25 7.26 7.25 7.21 7.20 7.19 7.18	Sp. Cond. (mS/cm) [3%]*  [.229 [.233 [.245 [.259 [.26] [.26]	2,cco 25    Turbidity (NTU)     10% or 1 NTU *     5	376) YS  p6 (mg/l) [10% or 0.1 mg/l]  15.02  9.21 (e.00 4.81 3.47 3.22 3-18	SS(c)   ORP (mV)   (10 mV)   159.9   154.4   149.9   140.8   138.7   136.4   134.2	MPS #3 (03C1461

### BROWN STREET PROPERTY, NORTH ADAMS, MASSACHUSETTS

Well No. OPCA-MUV-5R		Site Name	67	MA 4		
Key No.	Sampling i		577	48		
PID Background (ppm)		Date	101	19107		
Well Headspace (ppm)		Weather	0,00	cast .	40°F	<del></del>
WELL INFORMATION				Sample Time	1 1 9	
Reference Point Marked? (Y) N				Sample ID		MW-5F
	SCOUND			•		MIN SE
Well Diameter 3 21'	A CURTY			Duplicate ID		
Screen Interval Depth (1.25 31.25 Meas. From	B65			MS/MSD		
i har himme "	716			Split Sample ID		
2011						
Well Depth 21. 65 Meas. From _	110-		Required	Analytica	l Parameters:	Collected
Volume of Water in Well 1.30 a 2			( <b>X</b> )	VOCs	(Std. list)	$\langle \times \rangle$
	Til		( )	VOCs	(Exp. list)	( )
make Depth of Pullip/Tubing C	TIC		(X)		VOCs	( <b>X</b> )
Reference Point Identification:			( )		s (Total)	( )
TIC: Top of Inner (PVC) Casing			$(\mathbf{X})$		(Dissolved)	$\langle \mathbf{X} \rangle$
TOC: Top of Outer (Protective) Casing			( ~/ )		rganics (Total) inics (Dissolved)	
Grade/BGS: Ground Surface			·(×)	-	de (Dissolved)	(~)
^			( <b>x</b> )		de (Dissolved)	· · · · ·
Redevelop? Y (N ^r )			$(\mathcal{L})$		s/PCDFs	
			( ~)	Pesticide	s/Herbicides	( )
			( )	Natural .	Attenuation	( )
EVACUATION INFORMATION			( <b>X</b> )	Other	(Specify)	<b>(X</b> )
Pump Start Time 1032					(sulfide	, ) / \
1:21/1						
Pump Stop Time 314			hod: Bailer (	) Bladder P	ump ( )	
		staltic Pump		omersible Pump (	) Other/Spec	ify ( ).
Volume of Water Removed 14 cxx		ip Type:	geoke			,
Did Well Go Dry? Y N	Sam	ples collect	ed bý same mei	thod as evacuation	? (Y) N (specify	0
Water Quality Meter Type(s) / Serial Numbers: \( \sum_{ST} \) MSS	:5(#3(	· · · · · · · · · · · · · · · · · · ·	\/+/r	HH TUR	BIDMETA	ER (
Pump Total Water	Temp. ✓	pН	Sp. Cond.	^X Turbidity	DO	ORP
Time Rate Gallons Level	(Celsius)		(mS/cm)	(UTM)	(mg/l)	(mV)
MH/min.) Removed (ft TIC)		.1 units]*	[3%]*	[10% or 1 NTU]*		[10 mV]*
1033 25 0.033 13.83			···	95	·	52
1038 100 0.165 1395				90		~
1043 100 0,298 14.16				68		
1043 100 0.430 14.35	_			35		
1058 100 0.695 14.61	15.97 6	86	0.379	23	1463	97.5
1000.827 14.70	1585 6	90	0.339	72	111 78	
108 100 0.959 1487	15 87 /	42	0.409	7	17. 30	93.2
1113 100 1.09 14.99	15 15	7 (1)	0 1110	7-	12.30	08-8
	13.01	707	0.440		8.22	84.0
11 22 1/20 125 15 21	13.60 I	(.0/	0.1.75	5	3.44	87.8
11-20 100 1.35 15.39 1	5.6/	1.00	0.445	_5_	1,98	81000
1126 100 1.43 15.35	15.68	7.04	0,520	4	2.13	85./
1129 100 1.51 15.43 1	5.76 7	1.02	0.541	5	2.08	710.5
* The stabilization criteria for each field parameter (three consecutive	e readings collecte	d at 3- to 5-	minute intervals	) is listed in each c	olumn heading.	
OBSERVATIONS/SAMPLING METHOD DEVIATIONS					G.	
					·	
SAMPLE DESTINATION						
Laboratory: 3GS		•				
Delivered Via: UP3				-		
Airbill #:	pro _ 4 × 4	^		1		The state of the s
	rield	sampling C	coordinator:	and the		

vveli No.	CICA-	ruco ~	5E	- Sampli	Site Name ng Personnel Date	JA	1/07	4	
WELL INFORM	IATION - See Pa	age 1			Weather	Parts.	Cloud	ly, 70°	
Time	Pump Rate WA/min.)	Total Galions Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1.mg/l]*	ORP (mV) [10 mV
1132	700	1,59	15.50	15,79	7.01	0.563	5	1,50	73,0
1138	100	1.01	15.64	15.80	7.02	0.573	- 4	1,34	7/
1141	100	1,916	15.70	15.69	7.02	0.596	<del></del>	1,25 1,20	70.
1144	100	1. 1915	)15.77	15.56	7.010	0.622	<del>5</del>	1.18	69
1147	$-i\omega$	1,00	15.86	15,50	7.07	0.628	4	1.15	69.
1150	100	2,07	15.94	15.46	7.07	0.437	4	1.11	108.
							•		
	-								
									~
						-			7
									<del></del>
		<del></del>							

OBSERVATIONS/SAMPLING METHOD DEVIATIONS Lawered tubing slightly towards and of sampling due to drop in water level )

1.

PID Background (ppm)  Well Headspace (ppm)  Date 10/11/07 + 10/15/07  Weather 50's Clouder Winds	
	. /
WELL INFORMATION Sample Time //650	10/15/0
Reference Point Marked? Y N Sample ID OPCA-MW6	
Height of Reference Point Meas. From Duplicate ID	
Serron Interval Double 150 35 Mars 5	
Water Table Depth 21.63 Meas. From 714	
Well Depth 23.9 Meas From TIC Required Analytical Parameters: Colle	octad
Length of Water Column 2.28 (X) VOCs (Std. list)	
Volume of Water in Well 379 a 1/0 v ( ) VOCs (Exp. list)	,
Intake Depth of Pump/Tubing $\sim$ $\sim$ $\sim$ $\sim$ Meas. From $\sim$	)
Poference Point Identification ( ) PCBs (Total) (	)
Reference Point Identification:  ( Y ) PCBs (Dissolved) ( Y )  TIC: Top of Inner (PVC) Casing ( Catal)	)
TOC: Top of Outer (Protective) Casing	)
Grade/BGS: Ground Surface  ( ) Metals/Inorganics (Dissolved) ( )  Grade/BGS: Ground Surface ( ) EPA Cyanide (Dissolved) (	
( M') DAG Countile (Discuss 1)	)
Redevelop? Y (N)	
Donaticida e (Unautotata)	ر _م (
( ) Natural Attenuation (	)
Civacination in Contraction (Specify) (	· )
EVACUATION INFORMATION	
Pump Start Time 1305  Pump Stop Time 1305  Evacuation Method: Bailer ( ) Bladder Rump ( M	
Pump Stop Time <u>/ あどう</u> Evacuation Method: Bailer ( ) Bladder Pump ( <b>火</b> )	
Minutes of Dumping 45	
Minutes of Pumping 95 Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify (	)
Minutes of Pumping 45  Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )  Volume of Water Removed 1.25 gall p ms  Pump Type: blacker from O	)
Minutes of Pumping 95 Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify (	)
Minutes of Pumping 45  Volume of Water Removed 1.25 gull b NJ  Did Well Go Dry? N  N (specify)	)
Minutes of Pumping 45  Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )  Volume of Water Removed 1.25 gall p ms  Pump Type: blacker from O	)
Minutes of Pumping 45  Volume of Water Removed 1.25 gallons  Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: 151-556 MP5  Peristaltic Pump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()	
Minutes of Pumping 45  Volume of Water Removed 1.25 gall p ns  Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: 151-556 MPs  Hach 2/00P Turb: Jim full  Pump Total Water Temp. pH Sp. Cond. Turbidity DO OR  Rate Gallons Level (Celsius) (ms/cm) (NTU) (mg/l) (ms/l)	P
Minutes of Pumping 45  Volume of Water Removed 1-25 all p ns  Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: 151-556 MF5  Peristaltic Pump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump  Samples collected by same method as evacuation? N (specify)  Water Quality Meter Type(s) / Serial Numbers: 151-556 MF5  Pump Total Water Temp. pH Sp. Cond. Turbidity DO OR  Rate Gallons Level (Celsius) (mS/cm) (NTU) (mg/l) (m/l)  (L/min.) Removed (ft TIC) [3%]* [0.1 units]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/l]* [10 mr.]  Plantal Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  Pump Type: blacker Fump () Submersible Pump () Other/Specify ()  N (specify)	P V)
Minutes of Pumping 45  Volume of Water Removed 1.25 gall p ns  Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: 151-556 MF5  Peristaltic Pump () Submersible Pump () Other/Specify ()  Pump Type: b/c/cdler from D  Samples collected by same method as evacuation? N (specify)  Water Quality Meter Type(s) / Serial Numbers: 151-556 MF5  Pump Total Water Temp. pH Sp. Cond. Turbidity DO OR  Rate Gallons Level (Celsius) (mS/cm) (NTU) (mg/l) (m/l)	P V)
Minutes of Pumping 45  Volume of Water Removed 1.25 all p ns  Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: VS/-556 MF5  Peristaltic Pump () Submersible Pump () Other/Specify ()  Pump Type: b/c/cd/cs / L/mp  Samples collected by same method as evacuation? () N (specify)  Water Quality Meter Type(s) / Serial Numbers: VS/-556 MF5  Pump Total Water Temp. pH Sp. Cond. Turbidity DO OR  Rate Gallons Level (Celsius) (mS/cm) (NTU) (mg/l) (ms/cm)  (L/min.) Removed (ft TiC) [3%]* [0.1 units]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/l]* [10 ms/cm)  Nother/Specify ()  Pump Type: b/c/cd/cs / L/mp  Samples collected by same method as evacuation? () N (specify)  N (specify)	P V)
Minutes of Pumping 45 Volume of Water Removed 1.25 gall p ns Did Well Go Dry?  N  Water Quality Meter Type(s) / Serial Numbers:  Pump Type: blacker Fump () Submersible Pump () Other/Specify () Pump Type: blacker Fump () Other/Specify () Other/Specify () Pump Type: blacker Fump () Other/Specify () Oth	P V) nV]*
Minutes of Pumping   45	P V) nV]*
Minutes of Pumping 45 Volume of Water Removed 1.25 gall p ns Did Well Go Dry?  N  Water Quality Meter Type(s) / Serial Numbers:  Pump Type: blacker Fump () Submersible Pump () Other/Specify () Pump Type: blacker Fump () Other/Specify () Other/Specify () Pump Type: blacker Fump () Other/Specify () Oth	v) 
Minutes of Pumping         45         Peristallic Pump ()         Submersible Pump ()         Other/Specify ()           Volume of Water Removed Did Well Go Dry?         1.25 gall p nJ         Pump Type: blc.Oder Homp         Other/Specify ()           Water Quality Meter Type(s) / Serial Numbers:         1.25 dall p nJ         Samples collected by same method as evacuation?         N (specify)           Time         Pump Pump Total Rate Gallons Level (Celsius) (L/min.) Removed (ft TiC) [3%]* [0.1 units]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/l]* [10 mr.]         (mr.] (mr.] (mr.] (mr.] (mr.]         (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr.] (mr	P (V)
Minutes of Pumping	P (V)
Minutes of Pumping 75 Volume of Water Removed 1.25 10 10 N Did Well Go Dry? N  Water Quality Meter Type(s) / Serial Numbers: 15/-556 MP5 How 2/DDP Turb: 1/m fw  Time Rate Gallons Level (Celsius) (MTU) (mg/l) (mg/l) (mm/l) (mg/l) (mg/	P (V)
Minutes of Pumping	P VI N VI
Minutes of Pumping   45     Peristallic Pump ( )   Submersible Pump ( )   Other/Specify ( )	P VI N VI
Minutes of Pumping 75 Volume of Water Removed 1.25 gall p ns Did Well Go Dry? N N (specify)  Water Quality Meter Type(s) / Serial Numbers: 15/-556 MFs Hack 2100P Task J. m. fw  Time Rate Gallons Level (Celsius) (Celsius) (ms/cm) (NTU) (mg/l) (mms/cm) (mms/cm) (NTU) (mg/l) (mms/cm) (mms/cm) (nTU) (mg/l) (mms/cm) (nTU) (mg/l) (mms/cm) (mms/cm) (mms/cm) (nTU) (mg/l) (mms/cm) (mms	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:    VS/-556 MF5	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:  Water Quality Meter Type(s) / Submersible Pump () Submersible Pump () Other/Specify  N (specify)  N (specify)  N (specify)  N (specify)  N (specify)  N (specify)  Pump Type: blackeds from Pum	P VI N VI
Minutes of Pumping 75 Volume of Water Removed 1.25 Julip ns Samples collected by same method as evacuation? (In Specify)  Water Quality Meter Type(s) / Serial Numbers: VS/-556 MF3 Hack 2/DOP Turb, Vin Archiver Time Rate Gallons Level (Celsius)  [Limin.] Removed (ft TiC) [3%]* [0.1 units]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/l]* [10 mg/l] [10 m	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:  Water Quality Meter Type(s) / Submersible Pump () Submersible Pump () Other/Specify  N (specify)  N (specify)  N (specify)  N (specify)  N (specify)  N (specify)  Pump Type: blackeds from Pum	P VI N VI
Minutes of Pumping 75 Volume of Water Removed 1.25 Julip ns Samples collected by same method as evacuation? (In Specify)  Water Quality Meter Type(s) / Serial Numbers: VS/-556 MF3 Hack 2/DOP Turb, Vin Archiver Time Rate Gallons Level (Celsius)  [Limin.] Removed (ft TiC) [3%]* [0.1 units]* [3%]* [10% or 1 NTU]* [10% or 0.1 mg/l]* [10 mg/l] [10 m	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:    Volume of Water Removed   1.25 foll p n J   Did Water   Did Wate	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:  **YS/-556 MP3	P VI N VI
Minutes of Pumping  Volume of Water Removed  Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:  Water Temp.  Phy Sp. Cond.  Turbidity  DO  OR  (Ing/In)	P VI N VI
Minutes of Pumping Volume of Water Removed Did Well Go Dry?  Water Quality Meter Type(s) / Serial Numbers:  **YS/-556 MP3	P VI N VI

ELL INFOŖN	//ATION - See Pa	age 1		oumpi	Date Weather	Sona Sona	111/07 2 (20:5	59eld 10/15/07	
Time	Pump Rate (L/mín.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	OR (m\ [10 m
045	300 2014		21,70	11.60	7.10	1.359	30	23.00	163
Scar	ple d	6 10	0/15/0	7 10	507	7			
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Well No.	OPC A	-HW7		s	ite/GMA Name	GMAL	1/GEF	1+sfield	$\geq$	
Key No.				Samp	ling Personne		1			
	kground (ppm)			_	Date	10/9/0=	1 <del>X</del>			
Well He	adspace (ppm)				Weather	· _ Cloud	by mid	50'5		
WELL INFORM	MATION						Sample Time	See not	es -	>
Referenc	e Point Marked	? Ø N		• 0				OPCA - L		
Height of	Reference Poin		Meas. From	Grade.	_					
	Well Diamete	r <u>a"</u>	_							
Scree	n Interval Depti		Meas. From	Ground			Split Sample ID			
Wa	ater Table Depti		Meas. From	TIL						
	Well Depti			716		Required		Parameters:	Collecte	ed _ /
		200 1-1				( <b>X</b> )		(Std. list)	( <b>X</b> )	10/
		1 0.29 g	Meas. From	710		( )		(Exp. list)	( )	/
intake Deptin	or rampriabilit	3	wieas. Florii		_	( <b>X</b> )		VOCs	( <b>X</b> )	10/
Reference Poir	nt Identification:					( )		s (Total)	( )	/
TIC: Top of Inr		ıa				( <b>X</b> )		Dissolved)	( * )	10/
TOC: Top of O		-				( )		rganics (Total) inics (Dissolved)	( )	10/11
Grade/BGS: G	•	,				( <b>X</b> )		de (Dissolved)	( * )	10/11
						( <b>x</b> )		de (Dissolved)	( )	
Redevelop?	Y (N)					$\begin{pmatrix} \mathbf{x} \\ \mathbf{x} \end{pmatrix}$	•	s/PCDFs	( )	
						( )	Pesticide	s/Herbicides	( )	
						( )	Natural	Attenuation	( )	
						( <b>X</b> )	Other	(Specify)	( )	
EVACUATION							501	?ide		
Pt	ump Start Time	1615	_					, 00		
	ump Stop Time		-		Evacuation Me	ethod: ¹ Bailer (	) Bladder F	Pump ( )		
	tes of Pumping				Peristaltic Pun		bmersible Pump(	) Other/Sp	ecify ( )	
volume of v	vater Removed	1.5galla	7 7 4	•	Pump Type:		pump-	n? 🕜 N (spec		
Time	Water Quality M Pump Rate	fleter Type(s) / S  Total  Gallons	Water	Temp.	рН	Sp. Cond.	Turbidity	DO	ORP	
170	(L/min.)	Removed	(ft TIC)	(Celsius) [3%]*	[0.1 units]*	(mS/cm) [3%]*	(NTU) [10% or 1 NTU]*	(mg/l) [10% or 0.1 mg/l]*	(mV)	.
IbaD	150	0.20	33'D	[0.0]	2 -	[570]	298	1 [10% of 0,1 mg/l]	[10 mV]	-
1625	lpo	0.33	22.18		-		59			-
1630	100	0.46	22.5		_			***************************************	<del> </del>	
1635		0.59	22,61	14.35	657	51449	31	260		
1640		0-72	22.70	14.45	6.57	5,540	423.0 54 3.9	•	224.	
1645		0.85	22.81	14.39	1		20 29	175511	224.	
1013 1050		0-98			6.55	5.559 5,706		175TL	224.	
11,00	1/2		22.9D	14.22			<u> </u>	72410	224.	
The stabilization	v anitario for an	1-11	<u> </u>	14.16	6.55	5,787	17 2.	5224-4	223:	1
				utive readings of	collected at 3- to	5-minute interva	ls) is listed in each	column heading.		
		METHOD DEVIA				***				
				11117			1 A E	5.		
10/10/0		mples	ar	1710	= 3000	13, F. 17ch	nd PCB	,13		
10/12/0	$\tau - 3$	sample	ed at	0455	5 - VUC	5, Filter	MJ MCB			
SAMPLE DEST Laboratory:										
Delivered Via:									2	
Airbill #:					Field Sampling	1 Coordinator				and a
					camping	, Coordinator:	18/1			
							Es ()			

				Затр	ing Personnel Date Weather	* 10/9/0	7- vdy Mi	d50's	
VELL INFORM	/IATION - See P	age 1							Ł
Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	<b>pH</b> [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]
300	100	1.24	23,25	13.72	6.57	5.788	• •	0333	224.
1705	100	1.37	23.60	13.77	6.52	5,810		5124.3	224
13/12	-> Pc	adu to	Samo			enton			001
1006	150		22,3		6.49	5,831	<b>A</b>	728112	25h
005	<del>&gt;</del> {	ampl	2d E						
14107	$\sim$								
0950	200		23.55	13.27	6.53	6.23=	+ 10	3.09	240
0955	$\Rightarrow$	Samo	red @	095	10/1	407			
									******
								•	
									w- <i>-</i>
The etable of	n anita de d	J- 5-12	. (1)				s) is listed in each		

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MEH INCO	OMATION CO.	lawa 4		Sampli	ng Personnel Date Weather	KIC 10/18/0 Junny)	7 50°F		
Time	Pump Rate (Ľ/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORF (mV [10 m\
里的	250		-	15,36	6.90	6.363		25.30	82.
Samp	250 led a	4 8:10							
									*
				•					
The stabilizat				cutive readings col	lected at 3- to 5	5-minute interval	s) is listed in each	column heading.	

Well No Key No				_ Jamp	ling Personnel	KIC.	7 -		
	ckground (ppm)				Date		0/07		
Well H	eadspace (ppm)				Weather	tow to	DS OV	ercount_	
VELL INFOR	MATION						Sample Tim	e 14:30	10/11/07
Referen	ce Point Marked?	Y N		4				D 02CA-1	
Height o	f Reference Point		Meas, From		_			D	
	Well Diameter		<del>-</del>	<u> </u>			MS/MS	D	
	en Interval Depth				_		Split Sample I	D	
V	/ater Table Depth	<u>15,38</u> 31,58	Meas. From		_	Daminad	A 1 . 12	10	
l ength	of Water Column	***************************************	. Meas, From	716	_	Required ( <b> </b>		al Parameters:	Collected
	of Water in Well		lloni			( ~ )		S (Std. list) s (Exp. list)	( <b>X</b> , )
	of Pump/Tubing		Meas, From	Th		( <b>%</b> )		SVOCs	( )
·			_		_	( )		Bs (Total)	(ス)
eference Po	int Identification:					( _K )		(Dissolved)	(X)
IC: Top of Ir	ner (PVC) Casino	}				(	Metals/In	organics (Total)	( )
OC: Top of	Outer (Protective)	Casing				( <b>%</b> )	Metals/inorg	ganics (Dissolved)	( 🔏)
Grade/BGS:	Ground Surface					( )	EPA Cya	nide (Dissolved)	( )
	. 6					( 🗸 )	· ·	nide (Dissolved)	( <b>%</b> _)
edevelop?	YN					( *)		Ds/PCDFs	( <b>人</b> )
						( )		les/Herbicides	( )
		•				. ( )		Attenuation	( )
VACUATION	INFORMATION		Start	ed agre	en 142 Evacuation Me	( /\)	Othe	er (Specify) ういらかの	( >)
Min Volume of	Pump Stop Time utes of Pumping Water Removed old Well Go Dry?	75 4gallo			Desistable Done	and a contract (		Pump (X) ( ) Other/Sp Onc on? Y N (spec	ecify ( )
Min Volume of	utes of Pumping Water Removed	75 490110 O N	<u>.</u>		Peristaltic Pum Pump Type: Samples collec	mp ( ) Sut Marschal eted by same me	omersible Pump ルーSリカール thod as evacuati		ify)
Min Volume of	utes of Pumping Water Removed Did Well Go Dry?	75 490110 O N	<u>.</u>		Peristaltic Pum Pump Type: Samples collec	mp ( ) Sut Marschn) eted by same me	omersible Pump ルーSリカール thod as evacuati	One One One	ify)
Min Volume of	utes of Pumping Water Removed bid Well Go Dry? Water Quality M	75 4 gallo N eter Type(s)/S	Serial Numbers:	Y51-5	Peristaltic Pum Pump Type: Samples collec	Marschalted by same met	omersible Pump  1 System  thod as evacuate	() Other/Sp One on? Y (Nyspec Peristal: Sidim cter	ify) fix-Goof
Min Volume of E	utes of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump  Rate (L/min.)	75 49~110 N eter Type(s)/S	Serial Numbers:	ンジ 1 - 5 Temp.	Peristaltic Pum Pump Type: Samples collec	Marschalted by same mer	omersible Pump  h - Sy He h  thod as evacuate  LOOP Too  Turbidity  (NTU)	One	ORP
Min Volume of E	utes of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump  Rate	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water Level	75' 1 - 5 Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	Marschallted by same mer  Hach Sp. Cond.  (mS/cm)	omersible Pump  h - Sy He h  thod as evacuate  LOOP Too  Turbidity  (NTU)	One	ORP
Min Volume of C	utes of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump  Rate (L/min.)	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water  Level  (ft TIC)	75' 1 - 5 Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	Marschallted by same mer  Hach Sp. Cond.  (mS/cm)	Turbidity [10% or 1 NTU	One	ORP
Min Volume of C	utes of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump Rate (L/min.)	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water  Level  (ft TIC)	75' 1 - 5 Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	Marschallted by same mer  Hach Sp. Cond.  (mS/cm)	thod as evacuate the constraint of the constrain	One	ORP
Min Volume of C	water of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump Rate (L/min.)  / 50	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water  Level  (ft TIC)	75' 1 - 5 Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	Marschallted by same mer  Hach Sp. Cond.  (mS/cm)	Turbidity (NTU) [10% or 1 NTU	One	ORP
Min Volume of C	water of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump Rate (L/min.)  /50 200	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water Level (ft TIC)	75' 1 - 5 Temp. (Celsius)	Peristaltic Pum Pump Type: Samples collect	Marschallted by same mer  Hach Sp. Cond.  (mS/cm)	Turbidity (NTU) [10% or 1 NTU]	() Other/Sp Onc on? Y (Nyspec Peristal Sidin eter DO (mg/l)	ORP (mV) [10 mV]*
Min Volume of C	vites of Pumping Water Removed old Well Go Dry?  Water Quality M  Pump Rate (L/min.)  750 200  250  200	75 4 9 ~ 10 N eter Type(s) / S Total Gallons	Serial Numbers:  Water Level (ft TIC)  15.95	アジリー 5 Temp. (Celsius) [3%]*	Peristaltic Pum Pump Type: Samples collect SC MP  pH  [0.1 units]*	Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTU]  135  28  186.	() Other/Sp Onc on? Y (Nyspec Peristal Sidin eter DO (mg/l)	ORP (mV) [10 mV]*
Min Volume of C	water of Pumping Water Removed bid Well Go Dry?  Water Quality M  Pump Rate (L/min.)  /50  200  200  200	75 4 9 mllo N eter Type(s) / S Total Gallons	Serial Numbers:  Water Level (ft TIC)  15.95	751-5 Temp. (Celsius) [3%]*	Peristaltic Pum Pump Type: Samples collect  57 MP  pH  [0.1 units]*	Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTU]  135  28  186.	() Other/Sp Onc on? Y (N)(spec Perisfal S, dim etc.  DO (mg/l) * [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
Min Volume of C	vites of Pumping Water Removed old Well Go Dry?  Water Quality M  Pump Rate (L/min.)  750  300  300  300  300  300	75 4 9 mllo N eter Type(s) / S Total Gallons	Serial Numbers:  Water Level (ft TIC)  15.95  /L.4  /b.9  17.30  17.68	751-5 Temp. (Celsius) [3%]*  15.51 15.54 15.51	Peristaltic Pum Pump Type: Samples collect SC MP  pH [0.1 units]*	Sp. Cond.  (mS/cm)  [3%]*	Turbidity (NTU) [10% or 1 NTU] [18 6. 6. 4.	() Other/Sp Onc Onc Onc Onc Onc Onc Onc Onc	ORP (mV) 10 mV) 233 4
Time  1045  1050  1110  1120  1130  The stabilizat  BSERVATIO  VEW W	water of Pumping Water Removed old Well Go Dry?  Water Quality M  Pump Rate (L/min.)  /50  200  200  200  200  200  200  200	Y quillo N eter Type(s)/S Total Gallons Removed	Water Level (ft TIC) 15.95  14.4 16.9 17.48 17.69  Ler (three consectations	751-5  Temp. (Celsius) [3%]*  /5.5/ /5.64 /5.5/ /5.49 putive readings of	Peristaltic Pum Pump Type: Samples collect SC MP  pH [0.1 units]*  7.74  7.74  7.73  7.69  7.73  collected at 3- to	Sp. Cond. (mS/cm) [3%]*  0.671  0.660  0.688  0.438	Turbidity (NTU) [10% or 1 NTU]  2 8  2 8  2 6.  2 7.  5 6.  (s) is listed in each	() Other/Sp. Onc. Onc. Onc. Onc. Onc. Onc. Onc. Onc	ORP (mV) [10 mV]*
Time  1045  1050  1120  1130  The stabilizat  BSERVATIO  UMP  VEW WAR	vites of Pumping Water Removed old Well Go Dry?  Water Quality M  Pump Rate (L/min.)  /50  200  200  200  200  200  200  200	Y quillo N eter Type(s)/S Total Gallons Removed	Water Level (ft TIC) 15.95  14.4 16.9 17.48 17.69  Ler (three consectations	751-5  Temp. (Celsius) [3%]*  /5.5/ /5.64 /5.5/ /5.49 putive readings of	Peristaltic Pum Pump Type: Samples collect SC MP  pH [0.1 units]*  7.74  7.74  7.73  7.69  7.73  collected at 3- to	Sp. Cond. (mS/cm) [3%]*  0.671  0.660  0.688  0.438	Turbidity (NTU) [10% or 1 NTU]  2 8  2 8  2 6.  2 7.  5 6.  (s) is listed in each	() Other/Sp. Onc. Onc. Onc. Onc. Onc. Onc. Onc. Onc	ORP (mV) [10 mV]*

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	Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	
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	of Water Column			•		( <b>X</b> )	VOCs	(Std. list)	( <b>X</b> )
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	tes of Pumping				Peristallic Pum		bmersible Pump (		cify ( )
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	Water Quality Me	eter Type(s) / Se	rial Numbers						
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	Pump	Total	Water	Тотр.	рН	Sp. Cond.	Turbidity	DO	CRP
Time	Rate	Gallons	Level	(Calaius)		(mS/cm)	(UTN)	(mg/l)	(mV)
<del></del>	(Limine)	Removed	(ft TIC)	[3%]-	[0.1 units]*	[3%]*	[10% or 1 NTU]*	[10% or 0.1 mg/f]*	[10 mV]*
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### Appendix E

Groundwater Elevation/NAPL Monitoring Data – Fall 2007

Groundwater Quality Monitoring Interim Report for Fall 2007 Groundwater Management Area 4

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts

Fall 2007 Groundwater Elevation Data

Table E-1

	Measuring		Depth	LNAPL	DNAPL	Groundwater
Well	Point Elev.	Date	to Water	Thickness	Thickness	Elevation
		Date				
Name	(feet AMSL)	40/04/0007	(ft BMP)	(feet)	(feet)	(feet AMSL)
060A	1,001.71	10/31/2007	Could not loca		0.00	NA
060B-R	1,002.79	10/31/2007	17.02	0.00	0.00	985.77
78-1	1,026.32	7/10/07	10.40	0.00	0.00	1,015.92
78-1	1,026.32	10/9/2007	13.36	0.00	0.00	1,012.96
78-1	1,026.32	10/31/2007	12.40	0.00	0.00	1,013.92
78-1	1,026.32	11/12/2007	12.39	0.00	0.00	1,013.93
78-2	1,033.96	7/10/2007	8.20	0.00	0.00	1,025.76
78-2	1,033.96	10/31/2007	11.85	0.00	0.00	1,022.11
78-3	1,007.13	10/31/2007	18.75	0.00	0.00	988.38
78-4	998.55	10/31/2007	12.80	0.00	0.00	985.75
78-5R	997.36	10/31/2007	5.34	0.00	0.00	992.02
78-6	1,012.00	10/31/2007	Could not loca	ate	0.00	NA
78-6	1,012.00	11/12/2007	8.00	0.00	0.00	1,004.00
78-6	1,012.00	11/13/2007	8.80	0.00	0.00	1,003.20
GMA4-1	1,012.35	10/31/2007	23.76	0.00	0.00	988.59
GMA4-2	1,006.22	10/31/2007	13.64	0.00	0.00	992.58
GMA4-3	1,003.95	7/10/07	17.80	0.00	0.00	986.15
GMA4-3	1,003.95	8/28/2007	18.53	0.00	0.00	985.42
GMA4-3	1,003.95	9/17/2007	18.56	0.00	0.00	985.39
GMA4-3	1,003.95	10/31/2007	18.53	0.00	0.00	985.42
GMA4-3	1,003.95	11/29/2007	18.27	0.00	0.00	985.68
GMA4-3	1,003.95	12/17/2007	18.20	0.00	0.00	985.75
GMA4-4	999.64	7/10/2007	12.84	0.00	0.00	986.80
GMA4-4	999.64	10/31/2007	14.11	0.00	0.00	985.53
GMA4-5	993.34	10/31/2007	12.46	0.00	0.00	980.88
GMA4-6	1,009.12	7/10/2007	8.92	0.00	0.00	1,000.20
GMA4-6	1,009.12	10/8/2007	10.65	0.00	0.00	998.47
GMA4-6	1,009.12	10/31/2007	9.14	0.00	0.00	999.98
GMA4-6	1,009.12	11/12/2007	9.27	0.00	0.00	999.85
H78B-13R	992.93	10/31/2007	12.64	0.00	0.00	980.29
H78B-15	1,012.68	10/10/2007	15.87	0.00	0.00	996.81
H78B-15	1,012.68	10/31/2007	15.40	0.00	0.00	997.28
H78B-16	999.33	10/10/2007	13.69	0.00	0.00	985.64
H78B-16	999.33	10/31/2007	12.80	0.00	0.00	986.53
H78B-17	1,002.54	10/31/2007	16.75	0.00	0.00	985.79
H78B-17R	1,000.31	10/11/2007	14.25	0.00	0.00	986.06
H78B-17R	1,000.31	10/31/2007	13.76	0.00	0.00	986.55
NY-3	1,005.49	7/10/2007	15.41	0.00	0.00	990.08
NY-3	1,005.49	10/31/2007	16.85	0.00	0.00	988.64
NY-4	1,024.24	7/10/2007	10.41	0.00	0.00	1,013.83
NY-4	1,024.24	10/31/2007	13.53	0.00	0.00	1,010.71
NY-4	1,024.24	11/12/2007	11.54	0.00	0.00	1,010.71
OPCA-MW-1R	1,024.24	7/10/2007	3.92	0.00	0.00	1,012.70
OPCA-MW-1R	1,016.46	10/5/2007	6.16	0.00	0.00	1,010.30
OPCA-MW-1R	1,016.46	10/3/2007	Decommissio		0.00	1,010.30 NA
OPCA-MW-1K	1,010.40	7/10/2007	18.40	1		1,001.18
				0.00	0.00	
OPCA-MW-2	1,019.58	10/8/2007	19.95 Decommissio	0.00	0.00	NA NA
OPCA-MW-2	1,019.58	10/31/2007	1		0.00	NA 005.00
OPCA-MW-3	1,014.83	7/10/2007	19.80	0.00	0.00	995.03
OPCA-MW-3	1,014.83	10/9/2007	21.73	0.00	0.00	993.10

Fall 2007 Groundwater Elevation Data

Groundwater Quality Monitoring Interim Report for Fall 2007

Groundwater Management Area 4
General Electric Company - Pittsfield, Massachusetts

Table E-1

	Measuring		Depth	LNAPL	DNAPL	Groundwater
Well	Point Elev.	Date	to Water	Thickness	Thickness	Elevation
Name	(feet AMSL)		(ft BMP)	(feet)	(feet)	(feet AMSL)
OPCA-MW-3	1,014.83	10/31/2007	21.95	0.00	0.00	992.88
OPCA-MW-4	1,018.67	7/10/2007	12.43	0.00	0.00	1,006.24
OPCA-MW-4	1,018.67	10/9/2007	14.25	0.00	0.00	1,004.42
OPCA-MW-4	1,018.67	10/31/2007	13.65	0.00	0.00	1,005.02
OPCA-MW-5R	1,016.34	7/10/07	11.45	0.00	0.00	1,004.89
OPCA-MW-5R	1,016.34	10/9/2007	13.67	0.00	0.00	1,002.67
OPCA-MW-5R	1,016.34	10/31/2007	13.98	0.00	0.00	1,002.36
OPCA-MW-6	1,022.31	7/10/2007	17.41	0.00	0.00	1,004.90
OPCA-MW-6	1,022.31	10/11/2007	21.63	0.00	0.00	1,000.68
OPCA-MW-6	1,022.31	10/31/2007	19.80	0.00	0.00	1,002.51
OPCA-MW-7	1,026.57	7/10/2007	15.60	0.00	0.00	1,010.97
OPCA-MW-7	1,026.57	10/9/2007	21.90	0.00	0.00	1,004.67
OPCA-MW-7	1,026.57	10/31/2007	22.88	0.00	0.00	1,003.69
OPCA-MW-8	1,027.40	7/10/2007	10.70	0.00	0.00	1,016.70
OPCA-MW-8	1,027.40	10/10/2007	15.38	0.00	0.00	1,012.02
OPCA-MW-8	1,027.40	10/31/2007	14.30	0.00	0.00	1,013.10
RF-14	1,001.59	10/31/2007	11.15	0.00	0.00	990.44
RF-15	1,011.80	10/31/2007	7.68	0.00	0.00	1,004.12
SCH-4	1,014.05	7/10/2007	9.30	0.00	0.00	1,004.75
SCH-4	1,014.05	10/8/2007	11.38	0.00	0.00	1,013.77
SCH-4	1,014.05	10/31/2007	9.58	0.00	0.00	1,004.47
SCH-4	1,014.05	11/12/2007	9.36	0.00	0.00	1,004.69
UB-MW-5	1,006.06	10/31/2005	Dry at 15.44 f	eet	0.00	NA
UB-MW-6	1,019.79	10/31/2007	22.68	0.00	0.00	997.11
Allendale School	Property Mor	itoring Wells/	Piezometers			
PZ-1	1,005.60	11/12/2007	4.18	0.00	0.00	1,001.42
PZ-2	1,009.89	11/13/2007	2.70	0.00	0.00	1,007.19
PZ-3	1,010.43	11/12/2007	3.97	0.00	0.00	1,006.46
PZ-4	1,007.96	11/12/2007	0.72	0.00	0.00	1,007.24
SCH-1	1,017.11	11/12/2007	9.04	0.00	0.00	1,008.07
East Street Area 2	- North (Ground	dwater Manager	nent Area 1)			
ES1-20	1,001.56	7/17/2007	14.62	0.00	0.00	986.94
ES1-20	1,001.56	10/30/2007	15.84	0.00	0.00	985.72
ES1-20	1,001.56	10/31/2007	15.78	0.00	0.00	985.78

#### Notes:

- 1. ft AMSL feet Above Mean Sea Level.
- 2. ft BMP feet Below Measuring Point

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## Appendix F

Data Validation Report

Appendix F
Groundwater Sampling Data Validation Report

Groundwater Quality Monitoring Interim Report For Fall 2007 Groundwater Management Area 4 General Electric Company - Pittsfield, Massachusetts

#### 1.0 General

This attachment summarizes the data validation review performed on behalf to the General Electric Company (GE) for groundwater samples collected between October and November 2007 as part of groundwater sampling activities conducted at Groundwater Management Area 4, located at the General Electric Company/Housatonic River Site in Pittsfield, Massachusetts. The samples were analyzed for polychlorinated biphenyls (PCBs) and/or various other constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. (formerly Paradigm Analytical Labs, Inc.) of Wilmington, North Carolina. Data validation was performed for 15 PCB samples, 21 volatile organic compound (VOC) samples, 15 semi-volatile organic compound (SVOC) samples, 15 metal samples, 15 cyanide samples, 15 sulfide samples, and 15 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzo-functional compound (PCDF) samples.

#### 2.0 Data Evaluation Procedures

This attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- Field Sampling Plan/Quality Assurance Project Plan (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, ARCADIS BBL (submitted by GE on March 30, 2007 and approved by EPA on June 13, 2007);
- Region I Tiered Organic and Inorganic Data Validation Guidelines, USEPA Region I (July 1, 1993);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses, USEPA Region I (June 13, 1988) (Modified February 1989);
- Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, USEPA Region I (Draft, December 1996); and
- National Functional Guidelines for Dioxin/Furan Data Validation, USEPA (Draft, January 1996).

The data were validated to either a Tier I or Tier II level, as described below. Any deviations from the applicable quality control criteria utilized during the data review process are identified below. A tabulated summary of the Tier I/Tier II data review is presented in Table F-1. Each sample subject to evaluation is listed in Table F-1 to document that data review was performed. Samples that required data qualification are listed separately.

The following data qualifiers were used in this data evaluation:

- J The compound was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).
- U The compound was analyzed for, but was not detected. The sample quantitation limit is presented. Non-detect sample results are presented as ND(PQL) within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.
- UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is estimated and may or may not represent the actual level of quantitation. Non-detect sample results that required qualification are presented as ND(PQL) J within this report for consistency with documents previously prepared for investigations conducted at the GE-Pittsfield/Housatonic River Site.
- R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purpose.

#### 3.0 Data Validation Procedures

Section 7.5 of the FSP/QAPP states that analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (EPA guidelines). The Tier I review consisted of a completeness evidence audit, as outlined in the *EPA Region I CSF Completeness Evidence Audit Program* (EPA Region I, July 31, 1991), to ensure that laboratory data and documentation were present. In the event data packages were determined to be incomplete, the missing information was requested from the laboratory. Upon completion of the Tier I review, the data packages complied with the EPA Region I Tier I data completeness requirements.

The Tier II data review consisted of a review of data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Additionally, field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

A tabulated summary of the samples subject to Tier I and Tier II data review is presented in the following table.

Summary of Samples Subjected to Tier I and Tier II Data Validation

_		Tier I Only			Tier I &Tier II		T-(-1	
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total	
PCBs	0	0	0	13	1	1	15	
VOCs	0	0	0	15	1	5	21	
SVOCs	0	0	0	13	1	1	15	
Metals	0	0	0	13	1	1	15	

Summary of Samples Subjected to Tier I and Tier II Data Validation

_	Tier I Only						
Parameter	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	Total
PCDDs/PCDFs	0	0	0	13	1	1	15
Sulfides	0	0	0	13	1	1	15
Cyanides	0	0	0	13	1	1	15
Total	0	0	0	93	7	11	111

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in EPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented in Section 4 below.

#### 4.0 Summary of QA/QC Parameter Deviations Requiring Data Qualification

This section provides a summary of the deviations from the applicable QA/QC criteria that resulted in qualification of results.

The initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as estimated (J) when this criterion was not achieved. The compounds that did not achieve the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,2-Dibromo-3-chloropropane	21	J
	1,4-Dioxane	21	J
	2-Butanone	21	J
	2-Chloroethylvinylether	20	J
	Acetone	21	J
	Acetonitrile	21	J
	Acrolein	21	J
	Acrylonitrile	21	J
	Isobutanol	21	J
	Propionitrile	21	J
SVOCs	4-Phenylenediamine	14	J
	Aramite	14	J
	Hexachlorophene	15	J

Several of the organic compounds (including the compounds presented in the above tables detailing RRF

deviations) exhibit instrument response factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detect and non-detect compounds with %D values that exceeded the continuing calibration criteria were qualified as estimated (J). A summary of the compounds that exceeded the continuing calibration criterion and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Acrolein	1	J
	Acrylonitrile	1	J
	Bromoform	6	J
	Bromomethane	1	J
	Isobutanol	13	J
	Methacrylonitrile	7	J
	Propionitrile	1	J
	Tetrachloroethene	1	J
SVOCs	2-Methylphenol	3	J
	2-Naphthylamine	11	J
	2-Picoline	2	J
	3,3'-Dimethylbenzidine	12	J
	4-Nitrophenol	1	J
	4-Nitroquinoline-1-oxide	12	J
	a,a'-Dimethylphenethylamine	14	J
	Aramite	14	J
	Benzidine	15	J
	Hexachlorocyclopentadiene	11	J
	Indeno(1,2,3-cd)pyrene	1	J
	N-Nitrosomethylethylamine	2	J
	Phenacetin	1	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. These standards are required to have recoveries between 80% and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries were outside these control limits, the affected samples with detected results at or near the PQL concentration (i.e., less than three times the PQL) were qualified as estimated (J). The analytes that did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

**Analytes Qualified Due to CRDL Standard Recovery Deviations** 

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Arsenic	6	J
	Beryllium	11	J
	Cadmium	10	J
	Chromium	5	J
	Copper	4	J
	Lead	1	J
	Nickel	1	J
	Selenium	7	J
	Silver	6	J
	Thallium	9	J
	Tin	6	J

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organics require that the MS/MSD recovery be within the laboratory-generated QC acceptance limits specified on the MS reporting form and inorganics MS/MSD recoveries must be within 75% to 125%. Organic and inorganic sample results associated with MS/MSD recoveries less than the specified control limit, but greater than 10% and 30%, respectively, were qualified as estimated (J) and sample results associated with MS/MSD recoveries less than 10% and 30%, respectively, were qualified as rejected (R). The compounds/analytes that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds/Analyte Qualified Due to MS/MSD Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	1	R
SVOCs	4-Nitroaniline	1	R
	Pyridine	1	J
Inorganics	Sulfide	2	J
gariioo	Camac	1	R

MS/MSD sample analysis recovery criteria for organics require that the RPD between the MS and MSD recoveries be less than the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form. The compounds that exceeded the RPD limit and the number of samples qualified due to deviations are presented in the following table.

#### **Compounds Qualified Due to MS/MSD RPD Deviations**

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Bromoform	1	J
	Hexachlorocyclopentadiene	1	J
	Hexachloroethane	1	J
SVOCs	Pyridine	1	J

Blank action levels for compounds/analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample results that were below the blank action level were qualified with a "U." The compounds/analytes detected in method/analytical blanks which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Compounds/Analytes Qualified Due to Blank Deviations

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
VOCs	Methylene Chloride	3	U
	Acetone	1	U
	Bromodichloromethane	1	U
	Chloroform	4	U
	Dibromochloromethane	1	U
SVOCs	bis(2-Ethylhexyl)phthalate	1	U
PCDDs/PCDFs	PeCDFs (total)	1	U
Inorganics	Barium	3	U
	Beryllium	1	U
	Cadmium	1	U
	Chromium	2	U
	Copper	5	U
	Silver	6	U
	Vanadium	2	U
	Zinc	1	U

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analysis recovery criteria for organics must be within the laboratory-generated QC acceptance limits specified on the LCS/LCSD reporting form and inorganics must be between 80% to 120%. Organic sample results associated with the LCS/LCSD that exceeded laboratory-generated QC acceptance limits were qualified as estimated (J) and organic sample results less than 10% were qualified as rejected (R). The compounds/analyte that did not meet LCS/LCSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds/Analyte Qualified Due to LCS/LCSD Recovery Deviations

Analysis	Compound/Analyte	Number of Affected Samples	Qualification
VOCs	Dichlorodifluoromethane	1	J
SVOCs	2-Nitrophenol	1	R
	3&4-Methylphenol	14	J
	Hexachlorobutadiene	1	J
Inorganics	Sulfide	7	J

According to the laboratory narrative, during PCDD/PCDF analysis, the presence of a peak in the polychlorinated diphenylether channel could cause a false positive or an overestimation of the affected analytes. The PCDD/PCDF compounds that exhibited possible polychlorinated diphenylether contamination are presented in the following table.

**Compounds Qualified Due to Diphenylether Contamination Deviations** 

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	HxCDFs (total)	4	J
	PeCDFs (total)	7	J
	TCDFs (total)	7	J

According to the laboratory narrative, during PCDD/PCDF analysis, the presence of qualitative interference could cause a false positive or an overestimation of the affected analytes. The PCDD/PCDF compounds that exhibited qualitative interference contamination are presented in the following table.

Compounds Qualified Due to Qualitative Interference Contamination Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	1,2,3,7,8-PeCDF	1	J
	PeCDDs (total)	1	J
	PeCDFs (total)	1	J

#### 5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I/II data validation reviews. The percent usability calculation also includes quality control samples (i.e., field/equipment blanks, trip blanks, and field duplicates) to aid in the evaluation of data usability. Data usability is summarized in the following table.

**Data Usability** 

Parameter	Percent Usability	Rejected Data
VOCs	99.9	A total of one sample result was rejected due to MS/MSD recovery deviations.
SVOCs	99.9	A total of one sample result was rejected due to MS/MSD recovery deviations and one sample result was rejected due to LCS recovery deviations.
PCBs	100	None
PCDDs/PCDFs	100	None
Metals	100	None
Sulfides	93.3	A total of one sample result was rejected due to MS/MSD recovery deviations.
Cyanides	100	None

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the Data Quality Objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

#### 5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included field duplicates, MS/MSD samples, and LCS/LCSD samples. For this analytical program, 0.11% of the data required qualification due to MS/MSD RPD deviations. None of the data required qualification due to field duplicate RPD deviations or LCS/LCSD RPD deviations.

#### 5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, LCS/LCSDs, MS/MSD samples, CRDL samples, and surrogate compound recoveries. For this analytical program, 10.4% of the data required qualification due to instrument calibration deviations, 0.65% of the data required qualification due to MS/MSD recovery deviations, and 1.8% of the data required qualification due to CRDL recovery deviations. None of the data required qualification due to surrogate compound recovery deviations or internal standard recovery deviations.

#### 5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter, which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in the EPA-approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures consistent with EPA-approved analytical methodology. A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical data set, none of the data required qualification due to holding time deviations.

#### 5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. Specifically, all the groundwater samples collected between October and December 2007 were analyzed by EPA SW-846 method 8082 for PCBs, 8260 for VOCs, 8270 for SVOCs, 8290 for PCDDs/PCDFs, 6000/7000 for metals, 9030 for sulfides, and 9014 for cyanides.

#### 5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set ranged from 93.3% to 100% for individual analytical parameters and had an overall usability of 99.0%, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

Table F-1
Analytical Data Validation Summary

Sample											
Delivery				Validation							
oup No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
3s	IODOA ARAY AD (ET)	I 40/5/0007 I		T		T		1			_
35-502 35-503	OPCA-MW-1R (Filtered) 78-1 (Filtered)	10/5/2007 10/9/2007	Water Water	Tier II	No No						
35-503	GMA4-6 (Filtered)	10/8/2007	Water	Tier II	No			+			
35-503	GMA-4-DUP-1 (Filtered)	10/8/2007	Water	Tier II	No						Parent Sample OPCA-MW-2 (Filtered)
35-503	OPCA-MW-2 (Filtered)	10/8/2007	Water	Tier II	No						
35-503	OPCA-MW-5R (Filtered)	10/9/2007	Water	Tier II	No						
35-503	SCH-4 (Filtered)	10/8/2007	Water	Tier II	No						
35-506	H78B-15 (Filtered)	10/10/2007	Water	Tier II	No						
35-506	OPCA-MW-3 (Filtered)	10/9/2007	Water	Tier II	No						
35-506 35-508	OPCA-MW-4 (Filtered) OPCA-MW-7 (Filtered)	10/9/2007 10/12/2007	Water Water	Tier II Tier II	No No						
35-508	OPCA-MW-8 (Filtered)	10/12/2007	Water	Tier II	No						
35-510	GMA-4-RB-1 (Filtered)	10/11/2007	Water	Tier II	No						
35-510	OPCA-MW-6 (Filtered)	10/15/2007	Water	Tier II	No						
35-559	78-6 (Filtered)	11/13/2007	Water	Tier II	No						
als											
35-502	OPCA-MW-1R (Filtered)	10/5/2007	Water	Tier II	Yes	Barium	Method Blank	-	-	ND(0.107)	
						Beryllium	CRDL Standard %R	133.0%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.0100)	
						Cadmium	CRDL Standard %R	191.0%	80% to 120%	ND(0.0050) J	
						Cadmium Chromium	Method Blank CRDL Standard %R	129.0%	80% to 120%	ND(0.0050) ND(0.0100) J	
						Chromium	Method Blank	123.076	-	ND(0.0100) 3	
						Copper	CRDL Standard %R	165.0%	80% to 120%	ND(0.0100) J	
						Copper	Method Blank		-	ND(0.0100)	
						Lead	CRDL Standard %R	142.0%	80% to 120%	ND(0.0100) J	
						Nickel	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
						Selenium	CRDL Standard %R	126.0%	80% to 120%	ND(0.0200) J	
						Silver	CRDL Standard %R	136.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	146.0%	- 000/ += 4000/	ND(0.0100) ND(0.100) J	
						Tin Zinc	CRDL Standard %R Method Blank	146.0%	80% to 120%	ND(0.100) J ND(0.0200)	
35-503	78-1 (Filtered)	10/9/2007	Water	Tier II	Yes	Arsenic	CRDL Standard %R	72.1%	80% to 120%	ND(0.0100) J	
00 000	70 T (Fillered)	10/3/2007	Water	1101 11	103	Beryllium	CRDL Standard %R	55.4%	80% to 120%	ND(0.0100) J	
						Cadmium	CRDL Standard %R	48.4%	80% to 120%	ND(0.00500) J	
						Selenium	CRDL Standard %R	56.8%	80% to 120%	ND(0.0200) J	
						Silver	CRDL Standard %R	148.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Vanadium	Method Blank	-	-	ND(0.0500)	
35-503	GMA4-6 (Filtered)	10/8/2007	Water	Tier II	Yes	Arsenic	CRDL Standard %R	72.1%	80% to 120%	ND(0.0100) J	
						Beryllium Cadmium	CRDL Standard %R CRDL Standard %R	55.4% 48.4%	80% to 120% 80% to 120%	ND(0.0100) J ND(0.00500) J	
						Selenium	CRDL Standard %R	56.8%	80% to 120%	ND(0.0200) J	
						Silver	CRDL Standard %R	148.0%	80% to 120%	ND(0.0100) J	
						Silver	Method Blank	-	-	ND(0.0100)	
						Vanadium	Method Blank	-	-	ND(0.0500)	
35-503	GMA-4-DUP-1 (Filtered)	10/8/2007	Water	Tier II	Yes	Arsenic	CRDL Standard %R	72.1%	80% to 120%	ND(0.0100) J	Parent Sample OPCA-MW-2 (Filtered)
					I	Beryllium	CRDL Standard %R	55.4%	80% to 120%	ND(0.0100) J	
					I	Cadmium	CRDL Standard %R	48.4%	80% to 120%	ND(0.00500) J	1
					1	Selenium Silver	CRDL Standard %R CRDL Standard %R	56.8% 148.0%	80% to 120% 80% to 120%	ND(0.0200) J ND(0.0100) J	1
					1	Silver	Method Blank	140.0%	00% to 120%	ND(0.0100) J ND(0.0100)	+
35-503	OPCA-MW-2 (Filtered)	10/8/2007	Water	Tier II	Yes	Arsenic	CRDL Standard %R	72.1%	80% to 120%	ND(0.0100) J	1
000	2. 2	10,0,2001				Beryllium	CRDL Standard %R	55.4%	80% to 120%	ND(0.0100) J	
					I	Cadmium	CRDL Standard %R	48.4%	80% to 120%	ND(0.00500) J	
					I	Selenium	CRDL Standard %R	56.8%	80% to 120%	ND(0.0200) J	
					I	Silver	CRDL Standard %R	148.0%	80% to 120%	ND(0.0100) J	
				L	L	Silver	Method Blank	-	-	ND(0.0100)	
35-503	OPCA-MW-5R (Filtered)	10/9/2007	Water	Tier II	Yes	Cadmium	CRDL Standard %R	56.2%	80% to 120%	ND(0.00500) J	
					I	Chromium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	1
35-503	SCH-4 (Filtered)	10/9/2007	Water	Tior II	Voc	Thallium Areenic	CRDL Standard %R CRDL Standard %R	67.4%	80% to 120%	ND(0.0100) J	
JJ-0U3	SCH-4 (Filtered)	10/8/2007	Water	Tier II	Yes	Arsenic Beryllium	CRDL Standard %R CRDL Standard %R	72.1% 55.4%	80% to 120% 80% to 120%	ND(0.0100) J ND(0.0100) J	+
					I	Cadmium	CRDL Standard %R	48.4%	80% to 120%	ND(0.00500) J	1
				1	Selenium	CRDL Standard %R	56.8%	80% to 120%	ND(0.0200) J	<u> </u>	
					1	Silver	CRDL Standard %R	148.0%	80% to 120%	ND(0.0100) J	
	1		1	1	Silver	Method Blank	-		ND(0.0100)	1	

Table F-1 Analytical Data Validation Summary

											1
Sample Delivery				Validation							
Group No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
etals (con						1					
135-506	H78B-15 (Filtered)	10/10/2007	Water	Tier II	Yes	Cadmium Chromium	CRDL Standard %R CRDL Standard %R	56.2% 78.7%	80% to 120% 80% to 120%	ND(0.00500) J ND(0.0100) J	
						Thallium	CRDL Standard %R	67.4%	80% to 120%	ND(0.0100) J	
135-506	OPCA-MW-3 (Filtered)	10/9/2007	Water	Tier II	Yes	Cadmium	CRDL Standard %R	56.2%	80% to 120%	ND(0.00500) J	
						Chromium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
135-506	OPCA-MW-4 (Filtered)	10/9/2007	Water	Tier II	Yes	Thallium Cadmium	CRDL Standard %R CRDL Standard %R	67.4% 56.2%	80% to 120% 80% to 120%	ND(0.0100) J ND(0.00500) J	
135-506	OPCA-IVIVV-4 (Fillered)	10/9/2007	water	i iei ii	res	Chromium	CRDL Standard %R	78.7%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	67.4%	80% to 120%	ND(0.0100) J	
135-508	OPCA-MW-7 (Filtered)	10/11/2007	Water	Tier II	Yes	Beryllium	CRDL Standard %R	58.1%	80% to 120%	ND(0.0100) J	
						Copper	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Copper Thallium	Method Blank CRDL Standard %R	43.1%	- 80% to 120%	ND(0.0100) ND(0.0100) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
135-508	OPCA-MW-8 (Filtered)	10/11/2007	Water	Tier II	Yes	Barium	Method Blank	-	-	ND(0.100) 3	
	,					Beryllium	CRDL Standard %R	58.1%	80% to 120%	ND(0.0100) J	
						Chromium	Method Blank	-	-	ND(0.0100)	
						Copper	CRDL Standard %R	152.0%	80% to 120%	ND(0.0100) J	
						Copper Thallium	Method Blank CRDL Standard %R	43.1%	- 80% to 120%	ND(0.0100) ND(0.0100) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(0.0100) J	
3135-510	GMA-4-RB-1 (Filtered)	10/15/2007	Water	Tier II	Yes	Beryllium	CRDL Standard %R	58.1%	80% to 120%	ND(0.0100) J	
	(,					Thallium	CRDL Standard %R	43.1%	80% to 120%	ND(0.0100) J	
						Tin	CRDL Standard %R	127.0%	80% to 120%	ND(0.100) J	
3135-510	OPCA-MW-6 (Filtered)	10/15/2007	Water	Tier II	Yes	Barium	Method Blank	-	-	ND(0.500)	
						Beryllium	CRDL Standard %R Method Blank	58.1%	80% to 120%	0.00366 J ND(0.200)	
						Copper Thallium	CRDL Standard %R	43.1%	80% to 120%	ND(0.200)	
						Tin	CRDL Standard %R	127.0%	80% to 120%	0.00939 J	
135-559	78-6 (Filtered)	11/13/2007	Water	Tier II	Yes	Arsenic	CRDL Standard %R	127.0%	80% to 120%	0.00588 J	
						Beryllium	CRDL Standard %R	185.0%	80% to 120%	0.000850 J	
						Copper	CRDL Standard %R	124.0%	80% to 120%	ND(0.0100) J	
						Copper Selenium	Method Blank CRDL Standard %R	66.3%	80% to 120%	ND(0.0100) ND(0.0200) J	
						Thallium	CRDL Standard %R	36.3%	80% to 120%	ND(0.0200) J	
						Tin	CRDL Standard %R	124.0%	80% to 120%	ND(0.0100) J	
/OCs							<u> </u>	•			
9135-502	OPCA-MW-1R	10/5/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.045 0.024	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
						Acetone	ICAL RRF	0.024	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
				1		Isobutanol Methylene Chloride	ICAL RRF Method Blank	0.003	>0.05	ND(0.050) J ND(0.0050)	
				1		Propionitrile	ICAL RRF	0.012	>0.05	ND(0.0050) ND(0.020) J	
135-503	78-1	10/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.020) J	
500				1.5		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	MS/MSD %R	0.0%, 0.0%	16.7% to 200%	R	
				1		Acetone	ICAL RRF	0.020 0.006	>0.05	0.0023 J ND(0.020) J	-
						Acetonitrile Acrolein	ICAL RRF	0.006	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Bromoform	MS/MSD RPD	33.5%	<30%	0.00048 J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
				1		Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
135-503	GMA4-6	10/8/2007	Water	Tier II	Yes	Propionitrile 1,2-Dibromo-3-chloropropane	ICAL RRF ICAL RRF	0.012 0.029	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
130-003	GIVIA4-0	10/0/2007	water	i iei ii	res	1,4-Dioxane	ICAL RRF	0.029	>0.05	ND(0.0050) J ND(0.10) J	
				1		2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.02	>0.05	ND(0.0050) J	
					Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J		

Page 2 of 9

Table F-1 Analytical Data Validation Summary

Sample											
Delivery				Validation							
roup No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (conti	GMA4-6	10/8/2007	Water	Tier II	Yes	Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	1
00 000	GWII/ 14 O	10/0/2007	water	TICI II	103	Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Bromodichloromethane	Trip Blank	-	-	ND(0.0010)	
						Chloroform	Trip Blank	-	-	ND(0.0010)	
						Dibromochloromethane	Trip Blank		-	ND(0.0010)	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol Propionitrile	ICAL RRF	33.3% 0.012	<25% >0.05	ND(0.050) J ND(0.020) J	
35-503	GMA-4-DUP-1	10/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.020) J	Parent Sample OPCA-MW-2
00 000	S.I 1 201 1	10/0/2007	···aio.	1101 11	100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	r aron campio or on mit 2
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile Isobutanol	ICAL RRF	0.037 0.003	>0.05 >0.05	ND(0.025) J ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.030) J	
35-503	OPCA-MW-2	10/8/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017 0.037	>0.05 >0.05	ND(0.025) J ND(0.025) J	
						Acrylonitrile Isobutanol	ICAL RRF	0.037	>0.05	ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
35-503	OPCA-MW-5R	10/9/2007	Water	Tier II	ier II Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrolein Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
35-503	SCH-4	10/8/2007	Water	Tier II	Tier II Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone Acetonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acrolein	ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
				<u> </u>	<u> </u>	Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
35-503	Trip Blank	10/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
					2-Chloroethylvinylether	ICAL RRF ICAL RRF	0.024 0.020	>0.05 >0.05	ND(0.013) J ND(0.0050) J	+	
						Acetone Acetonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J ND(0.020) J	
						Acrolein	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
				<u> </u>		Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
35-506	H78B-15	10/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
					1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J		
				]	2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J		

Table F-1 Analytical Data Validation Summary

Sample											
Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (cont		Date Conceicu	HIGHTIX	Level	Quamoution	Compound	QAVQO I di dilicici	Value	CONTROL EMINES	Qualifica Result	Hotes
G135-506	H78B-15	10/10/2007	Water	Tier II	Yes	2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	0.0031 J	
						Acetonitrile Acrolein	ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Chloroform	Trip Blank	-	-	ND(0.0010)	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol Methylene Chloride	CCAL %D Method Blank	33.3%	<25%	ND(0.050) J ND(0.0050)	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.0000)	
G135-506	H78B-16	10/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether Acetone	ICAL RRF	0.024 0.020	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Chloroform	Trip Blank		-	ND(0.0010)	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol Propionitrile	ICAL %D	33.3% 0.012	<25% >0.05	ND(0.050) J ND(0.020) J	
G135-506	OPCA-MW-3	10/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.020) J	
0100 000	OF OPTIMITY O	10/3/2007	water	TICI II	103	1.4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile Acrolein	ICAL RRF ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
G135-506	OPCA-MW-4	10/9/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1.4-Dioxane	ICAL RRF	0.029 0.001	>0.05 >0.05	ND(0.0050) J	
						2-Butanone	ICAL RRF	0.001	>0.05	ND(0.10) J ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.0030) 3	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile Isobutanol	ICAL RRF ICAL RRF	0.037 0.003	>0.05 >0.05	ND(0.025) J ND(0.050) J	
						Isobutanol	CCAL %D	33.3%	<25%	ND(0.050) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
G135-506	Trip Blank	10/10/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
				1		1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
				1		2-Chloroethylvinylether Acetone	ICAL RRF ICAL RRF	0.024 0.020	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
				1		Acetonie	ICAL RRF	0.020	>0.05	ND(0.0030) J	
				1		Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
				1		Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
				1		Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Isobutanol Propionitrile	CCAL %D ICAL RRF	33.3% 0.012	<25% >0.05	ND(0.050) J ND(0.020) J	
G135-508	H78B-17R	10/11/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.020) J ND(0.050) J	
50 000		,,2001				1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(1.0) J	
				1		2-Butanone	ICAL RRF	0.045	>0.05	ND(0.050) J	
				1		2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.13) J	
				1		Acetone	ICAL RRF	0.020	>0.05	ND(0.050) J	
						Acetonitrile Acrolein	ICAL RRF ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.20) J ND(0.25) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.25) J	
						Bromomethane	CCAL %D	34.9%	<25%	ND(0.010) J	
						Chloroform	Trip Blank	-	-	ND(0.0045)	
	1					Dichlorodifluoromethane	LCS %R	68.0%	69.8% to 134%	ND(0.010) J	

Page 4 of 9

Table F-1 Analytical Data Validation Summary

Sample Delivery				Validation							
Group No. VOCs (conti	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
G135-508	H78B-17R	10/11/2007	Water	Tier II	Yes	Isobutanol	ICAL RRF	0.003	>0.05	ND(0.50) J	
						Isobutanol	ICAL RRF	33.3% 0.012	<25% >0.05	ND(0.50) J ND(0.20) J	
G135-508	OPCA-MW-7	10/12/2007	Water	Tier II	Yes	Propionitrile 1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.20) J ND(0.0050) J	
0.00 000	0. 0/1	10/12/2007	· · · · · ·		100	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether Acetone	ICAL RRF	0.024 0.020	>0.05 >0.05	ND(0.013) J ND(0.0050) J	
						Acetonie	ICAL RRF	0.006	>0.05	ND(0.0030) J	
						Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037 28.2%	>0.05 <25%	ND(0.025) J ND(0.0010) J	
						Bromoform Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0010) J	
						Methacrylonitrile	CCAL %D	37.7%	<25%	ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
G135-508	OPCA-MW-8	10/11/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane 1.4-Dioxane	ICAL RRF	0.029 0.001	>0.05 >0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetone Acetonitrile	Trip Blank ICAL RRF	0.006	>0.05	ND(0.0050)	
						Acrolein	ICAL RRF	0.006	>0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Bromoform	CCAL %D	28.2%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF CCAL %D	0.003 37.7%	>0.05 <25%	ND(0.050) J ND(0.010) J	
						Methylene Chloride	Method Blank	31.1%	<25%	ND(0.010) 3 ND(0.0050)	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
G135-508	Trip Blank	10/12/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.045 0.024	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	0.0017 J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
						Acrolein	ICAL RRF	0.017 0.037	>0.05	ND(0.025) J	
						Acrylonitrile Bromoform	ICAL RRF CCAL %D	28.2%	>0.05 <25%	ND(0.025) J ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile	CCAL %D	37.7%	<25%	ND(0.010) J	
G135-510	GMA-4-RB-1	10/15/2007	Water	Tier II	Yes	Propionitrile 1,2-Dibromo-3-chloropropane	ICAL RRF	0.012 0.029	>0.05 >0.05	ND(0.020) J ND(0.0050) J	
G 135-510	GIVIA-4-RD-1	10/15/2007	water	i iei ii	res	1,4-Dioxane	ICAL RRF	0.029	>0.05	ND(0.0050) J ND(0.10) J	
						2-Butanone	ICAL RRF	0.045	>0.05	ND(0.0050) J	
				1		2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone Acetonitrile	ICAL RRF ICAL RRF	0.020 0.006	>0.05 >0.05	0.0028 J ND(0.020) J	
				1		Acrolein	ICAL RRF	0.006	>0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.037	>0.05	ND(0.025) J	
						Bromoform	CCAL %D	28.2%	<25%	ND(0.0010) J	
						Isobutanol Methacrylonitrile	ICAL RRF CCAL %D	0.003 37.7%	>0.05 <25%	ND(0.050) J ND(0.010) J	
						Propionitrile	ICAL RRF	0.012	>0.05	ND(0.010) J	
G135-510	OPCA-MW-6	10/15/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone 2-Chloroethylvinylether	ICAL RRF	0.045 0.024	>0.05 >0.05	ND(0.0050) J ND(0.013) J	
						Acetone	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetonitrile	ICAL RRF	0.006	>0.05	ND(0.020) J	
				1		Acrolein	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Acrylonitrile Bromoform	ICAL RRF CCAL %D	0.037 28.2%	>0.05 <25%	ND(0.025) J ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.0010) J	
i						Methacrylonitrile	CCAL %D	37.7%	<25%	ND(0.010) J	
0.405	T: D: .	40/:-/		<del> </del>	ļ	Propionitrile	ICAL RRF	0.012	>0.05	ND(0.020) J	
G135-510	Trip Blank	10/15/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.029	>0.05	ND(0.0050) J	

Table F-1
Analytical Data Validation Summary

Sample											
Delivery				Validation							
Froup No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
OCs (conti 135-510	nued) Trip Blank	10/15/2007	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	<u></u>
133-310	Пір Біапк	10/15/2007	water	i iei ii	165	2-Butanone	ICAL RRF	0.045	>0.05	ND(0.10) J	
						2-Chloroethylvinylether	ICAL RRF	0.024	>0.05	ND(0.013) J	
						Acetone	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Acetonitrile Acrolein	ICAL RRF ICAL RRF	0.006 0.017	>0.05 >0.05	ND(0.020) J ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.017	>0.05	ND(0.025) J	
						Bromoform	CCAL %D	28.2%	<25%	ND(0.0010) J	
						Isobutanol	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile Propionitrile	ICAL RRF	37.7% 0.012	<25% >0.05	ND(0.010) J ND(0.020) J	
135-559	78-6	11/13/2007	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	ICAL RRF	0.012	>0.05	ND(0.020) J ND(0.0050) J	
.00 000	7.00	11/10/2007	******			1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.10) J	
						2-Butanone	ICAL RRF	0.040	>0.05	ND(0.0050) J	
						2-Chloroethylvinylether	ICAL RRF	0.026	>0.05	ND(0.013) J	
						Acetone Acetonitrile	ICAL RRF ICAL RRF	0.024 0.007	>0.05 >0.05	0.0014 J ND(0.020) J	
						Acrolein	ICAL RRF	0.007	>0.05	ND(0.025) J	
						Acrolein	CCAL %D	88.9%	<25%	ND(0.025) J	
						Acrylonitrile	ICAL RRF	0.035	>0.05	ND(0.025) J	
						Acrylonitrile	CCAL %D	42.9%	<25%	ND(0.025) J	
						Isobutanol Matha and anitrila	ICAL RRF	0.003	>0.05	ND(0.050) J	
						Methacrylonitrile Propionitrile	ICAL %D	39.0% 0.011	<25% >0.05	ND(0.010) J ND(0.020) J	
						Propionitrile	CCAL %D	45.5%	<25%	ND(0.020) J	
						Tetrachloroethene	CCAL %D	30.4%	<25%	ND(0.0010) J	
VOCs											
135-502	OPCA-MW-1R	10/5/2007	Water	Tier II	Yes	2-Methylphenol	CCAL %D	200.0%	<25%	ND(0.010) J	
						2-Nitrophenol 4-Nitroaniline	LCS %R MSD %R	4.6% 2.4%	23.8% to 145% 30.0% to 153%	R R	
						4-Nitrophenol	CCAL %D	45.0%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	35.8%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	99.0%	<25%	ND(0.050) J	
						Aramite	ICAL RRF CCAL %D	0.025 25.8%	>0.05 <25%	ND(0.010) J ND(0.020) J	
						Benzidine Hexachlorophene	ICAL RRF	0.041	>0.05	ND(0.020) J ND(0.010) J	
						Indeno(1,2,3-cd)pyrene	CCAL %D	67.3%	<25%	ND(0.010) J	
						Phenacetin	CCAL %D	86.7%	<25%	ND(0.010) J	
						Pyridine	MS/MSD RPD	49.9%	<30%	ND(0.010) J	
135-503	78-1	10/9/2007	Water	Tier II	Yes	2-Naphthylamine 3&4-Methylphenol	CCAL %D LCS %R	35.2% 72.7%	<25% 75.6% to 200%	ND(0.050) J ND(0.010) J	
						3.3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
				1		4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	<u> </u>
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
				1		Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
				1		Aramite Benzidine	CCAL %D CCAL %D	115.8% 74.7%	<25% <25%	ND(0.010) J ND(0.020) J	+
				1		Hexachlorocyclopentadiene	CCAL %D	26.1%	<25% <25%	ND(0.020) J	+
				1		Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
				<u> </u>		Pyridine	MSD %R	48.3%	50.0% to 150%	ND(0.010) J	
135-503	GMA4-6	10/8/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	
				1		3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	1
				1		3,3'-Dimethylbenzidine 4-Nitroquinoline-1-oxide	CCAL %D CCAL %D	28.2% 27.9%	<25% <25%	ND(0.050) J ND(0.050) J	+
				1		4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.030) J	<del> </del>
				1		a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	<u> </u>
				1		Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
				1		Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
				1		Benzidine Hoveeblereevelenentediene	CCAL %D	74.7%	<25% <25%	ND(0.020) J	+
				1		Hexachlorocyclopentadiene Hexachlorophene	ICAL %D	26.1% 0.045	<25% >0.05	ND(0.020) J ND(0.010) J	+
135-503	GMA-4-DUP-1	10/8/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	Parent Sample OPCA-MW-2
						3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
				<u> </u>	<u> </u>	3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	

Page 6 of 9

Table F-1
Analytical Data Validation Summary

Sample											
Delivery				Validation							
Group No. SVOCs (con	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
3135-503	GMA-4-DUP-1	10/8/2007	Water	Tier II	Yes	4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	ı
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite Benzidine	CCAL %D CCAL %D	115.8% 74.7%	<25% <25%	ND(0.010) J ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
G135-503	OPCA-MW-2	10/8/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	
						3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
						3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide 4-Phenylenediamine	ICAL RRF	27.9% 0.018	<25% >0.05	ND(0.050) J ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	74.7%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
G135-503	OPCA-MW-5R	10/9/2007	Water	Tier II	Yes	Hexachlorophene 2-Naphthylamine	ICAL RRF CCAL %D	0.045 35.2%	>0.05 <25%	ND(0.010) J ND(0.050) J	
0100-000	OI CA-WW-3K	10/3/2007	vvater	i i i i i i	163	3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
						3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite Aramite	ICAL RRF CCAL %D	0.019 115.8%	>0.05 <25%	ND(0.010) J ND(0.010) J	
						Benzidine	CCAL %D	74.7%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
G135-503	SCH-4	10/8/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	
						3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
						3,3'-Dimethylbenzidine 4-Nitroquinoline-1-oxide	CCAL %D CCAL %D	28.2% 27.9%	<25% <25%	ND(0.050) J ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.030) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	74.7%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene Hexachlorophene	CCAL %D ICAL RRF	26.1% 0.045	<25% >0.05	ND(0.020) J ND(0.010) J	
G135-506	H78B-15	10/10/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	
						3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
						3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
				1		4-Phenylenediamine a,a'-Dimethylphenethylamine	ICAL RRF	0.018 70.5%	>0.05	ND(0.020) J	
				1		Aramite	ICAL %D	70.5% 0.019	<25% >0.05	ND(0.050) J ND(0.010) J	
				1		Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	74.7%	<25%	ND(0.020) J	
				1		Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
0405	ODOL MINO	40/5/55		<u> </u>	ļ.,,	Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
G135-506	OPCA-MW-3	10/9/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D LCS %R	35.2%	<25%	ND(0.050) J	
				1		3&4-Methylphenol 3,3'-Dimethylbenzidine	CCAL %D	72.7% 28.2%	75.6% to 200% <25%	ND(0.010) J ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
						Benzidine Hexachlorocyclopentadiene	CCAL %D CCAL %D	74.7% 26.1%	<25% <25%	ND(0.020) J ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.020) J ND(0.010) J	1
3135-506	OPCA-MW-4	10/9/2007	Water	Tier II	Yes	2-Naphthylamine	CCAL %D	35.2%	<25%	ND(0.050) J	
				1		3&4-Methylphenol	LCS %R	72.7%	75.6% to 200%	ND(0.010) J	
	1			1		3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	

Table F-1 Analytical Data Validation Summary

Sample Delivery				Validation							
Group No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (con G135-506	OPCA-MW-4	10/9/2007	Water	Tier II	Yes	4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
		13/3/201				4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF CCAL %D	0.019 115.8%	>0.05 <25%	ND(0.010) J ND(0.010) J	
						Aramite Benzidine	CCAL %D	74.7%	<25% <25%	ND(0.010) J ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
G135-508	OPCA-MW-7	10/11/2007	Water	Tier II	Yes	3&4-Methylphenol	LCSD %R	67.4%	75.6% to 200%	ND(0.010) J	
						3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide 4-Phenylenediamine	CCAL %D ICAL RRF	27.9% 0.018	<25% >0.05	ND(0.050) J ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite	CCAL %D	115.8%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	74.7%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D ICAL RRF	26.1%	<25%	ND(0.020) J	
G135-508	OPCA-MW-8	10/11/2007	Water	Tier II	Yes	Hexachlorophene 3&4-Methylphenol	LCSD %R	0.045 67.4%	>0.05 75.6% to 200%	ND(0.010) J ND(0.010) J	
G 135-506	OF CA-IVIVV-0	10/11/2007	water	i iei ii	162	3,3'-Dimethylbenzidine	CCAL %D	28.2%	<25%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	CCAL %D	27.9%	<25%	ND(0.050) J	
						4-Phenylenediamine	ICAL RRF	0.018	>0.05	ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	70.5%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite Benzidine	CCAL %D CCAL %D	115.8% 74.7%	<25% <25%	ND(0.010) J ND(0.020) J	
						Hexachlorocyclopentadiene	CCAL %D	26.1%	<25%	ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
G135-510	GMA-4-RB-1	10/15/2007	Water	Tier II	Yes	2-Methylphenol	CCAL %D	38.8%	<25%	ND(0.010) J	
						2-Naphthylamine	CCAL %D	25.8%	<25%	ND(0.050) J	
						2-Picoline	CCAL %D	34.9%	<25%	ND(0.010) J	
						3&4-Methylphenol 4-Phenylenediamine	ICAL RRF	68.1% 0.018	75.6% to 200% >0.05	ND(0.010) J ND(0.020) J	
						a,a'-Dimethylphenethylamine	CCAL %D	64.7%	<25%	ND(0.050) J	
						Aramite	ICAL RRF	0.019	>0.05	ND(0.010) J	
						Aramite	CCAL %D	105.3%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	50.0%	<25%	ND(0.020) J	
						Hexachlorocyclopentadiene	MS/MSD RPD	48.4%	<30%	ND(0.020) J	
						Hexachloroethane Hexachlorophene	MS/MSD RPD ICAL RRF	31.5% 0.045	<30% >0.05	ND(0.010) J ND(0.010) J	
					1	N-Nitrosomethylethylamine	CCAL %D	83.8%	<25%	ND(0.010) J	
G135-510	OPCA-MW-6	10/15/2007	Water	Tier II	Yes	2-Methylphenol	CCAL %D	38.8%	<25%	ND(0.010) J	
						2-Naphthylamine	CCAL %D	25.8%	<25%	ND(0.050) J	
						2-Picoline	CCAL %D	34.9%	<25%	ND(0.010) J	
						3&4-Methylphenol	LCS %R	68.1%	75.6% to 200%	ND(0.010) J	<u> </u>
						4-Phenylenediamine a,a'-Dimethylphenethylamine	ICAL RRF CCAL %D	0.018 64.7%	>0.05 <25%	ND(0.020) J ND(0.050) J	+
						Aramite	ICAL RRF	0.019	>0.05	ND(0.030) J	1
						Aramite	CCAL %D	105.3%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	50.0%	<25%	ND(0.020) J	
						Hexachlorophene	ICAL RRF	0.045	>0.05	ND(0.010) J	
0405 550	70.0	44/40/0007	14/	T: "		N-Nitrosomethylethylamine	CCAL %D	83.8%	<25%	ND(0.010) J	
G135-559	78-6	11/13/2007	Water	Tier II	Yes	3&4-Methylphenol 3,3'-Dimethylbenzidine	LCS %R CCAL %D	71.9% 25.8%	75.6% to 200% <25%	ND(0.0050) J ND(0.025) J	+
						3,3'-Dimethylbenzidine Aramite	CCAL %D	25.8%	<25% <25%	ND(0.025) J ND(0.0050) J	+
						Benzidine	CCAL %D	30.0%	<25%	ND(0.0030) J	†
						bis(2-Ethylhexyl)phthalate	Method Blank	-	-	ND(0.0050)	
				1		Hexachlorobutadiene	LCS %R	35.10%	37.9% to 123%	ND(0.0050) J	
						Hexachlorophene	ICAL RRF	0.023	>0.05	ND(0.0050) J	
PCDDs/PCD		10/5/000		T		In one ( , , )	In the contract of				<b>T</b>
G135-502	OPCA-MW-1R	10/5/2007	Water	Tier II	Yes	PeCDFs (total) TCDFs (total)	Diphenylether Contamination  Diphenylether Contamination	+ :	1 1	0.00000031 J 0.00000035 J	+
G135-503	78-1	10/9/2007	Water	Tier II	Yes	HxCDFs (total)	Diphenylether Contamination  Diphenylether Contamination	+ -	+ +	0.00000035 J	+
00 000		.5/5/2001			.00	PeCDFs (total)	Diphenylether Contamination	-	-	0.000000010 J	†
						TCDFs (total)	Diphenylether Contamination	-	-	0.00000012 J	<u> </u>
G135-503	GMA4-6	10/8/2007	Water	Tier II	Yes	PeCDFs (total)	Diphenylether Contamination	-	-	0.0000000076 J	

Table F-1
Analytical Data Validation Summary

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Sample											
Delivery	0	Data Callegia		Validation	0	0	0.4/0.0 P	V-I	0	Overliffe d Decode	Maran
Group No.	Sample ID	Date Collected	Matrix	Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
G135-503	Fs (continued)	10/8/2007	Water	Tier II	Vaa	TCDFs (total)	Diphenylether Contamination	-	1	0.000000023 J	ı
G135-503	GMA-4-DUP-1	10/8/2007	Water	Tier II	Yes Yes	HxCDFs (total)	Diphenylether Contamination  Diphenylether Contamination	-	-	0.000000023 J	Parent Sample OPCA-MW-2
G 135-503	GWA-4-DOF-1	10/6/2007	water	Heili	162	PeCDFs (total)	Diphenylether Contamination	-	-	0.000000017 J	Falent Sample OF CA-WW-2
						TCDFs (total)	Diphenylether Contamination	-	-	0.000000049 J	
G135-503	OPCA-MW-2	10/8/2007	Water	Tier II	Yes	PeCDFs (total)	Diphenylether Contamination	+ -	-	0.000000030 J	
0.00 000	0. 0	10/0/2001	*******	110111		TCDFs (total)	Diphenylether Contamination	-	-	0.000000036 J	
G135-503	OPCA-MW-5R	10/9/2007	Water	Tier II	Yes	1,2,3,7,8-PeCDF	Quantitative Interference	-	-	ND(0.0000000052) J	
						HxCDFs (total)	Diphenylether Contamination	-	-	0.00000042 J	
						PeCDDs (total)	Quantitative Interference	-	-	ND(0.0000000052) J	
						PeCDFs (total)	Diphenylether Contamination	-	-	0.00000090 J	
						PeCDFs (total)	Quantitative Interference	-	-	0.00000090 J	
						TCDFs (total)	Diphenylether Contamination	-	-	0.00000069 J	
G135-503	SCH-4	10/8/2007	Water	Tier II	Yes	HxCDFs (total)	Diphenylether Contamination	-	-	0.000000016 J	
						PeCDFs (total)	Diphenylether Contamination	-	-	0.000000039 J	
						TCDFs (total)	Diphenylether Contamination	-	-	0.00000012 J	
G135-506	H78B-15	10/10/2007	Water	Tier II	No	, ,					
G135-506	OPCA-MW-3	10/9/2007	Water	Tier II	No	İ					
G135-506	OPCA-MW-4	10/9/2007	Water	Tier II	Yes	PeCDFs (total)	Method Blank	-	-	ND(0.0000000056)	
G135-508	OPCA-MW-8	10/11/2007	Water	Tier II	No	i '				,	
G135-510	GMA-4-RB-1	10/15/2007	Water	Tier II	No						
G135-510	OPCA-MW-6	10/15/2007	Water	Tier II	No						
G135-520	OPCA-MW-7	10/18/2007	Water	Tier II	No						
G135-559	78-6	11/13/2007	Water	Tier II	No						
Cyanide-MA	DEP (PAC)			•			•				
G135-502	OPCA-MW-1R (Filtered)	10/5/2007	Water	Tier II	No						
G135-503	78-1 (Filtered)	10/9/2007	Water	Tier II	No						
G135-503	GMA4-6 (Filtered)	10/8/2007	Water	Tier II	No						
G135-503	GMA-4-DUP-1 (Filtered)	10/8/2007	Water	Tier II	No						Parent Sample OPCA-MW-2 (Filtered)
G135-503	OPCA-MW-2 (Filtered)	10/8/2007	Water	Tier II	No						
G135-503	OPCA-MW-5R (Filtered)	10/9/2007	Water	Tier II	No						
G135-503	SCH-4 (Filtered)	10/8/2007	Water	Tier II	No						
G135-506	H78B-15 (Filtered)	10/10/2007	Water	Tier II	No						
G135-506	OPCA-MW-3 (Filtered)	10/9/2007	Water	Tier II	No						
G135-506	OPCA-MW-4 (Filtered)	10/9/2007	Water	Tier II	No						
G135-508	OPCA-MW-8 (Filtered)	10/11/2007	Water	Tier II	No						
G135-510	GMA-4-RB-1 (Filtered)	10/15/2007	Water	Tier II	No						
G135-510	OPCA-MW-6 (Filtered)	10/15/2007	Water	Tier II	No						
G135-510	OPCA-MW-7 (Filtered)	10/16/2007	Water	Tier II	No						
G135-559	78-6 (Filtered)	11/13/2007	Water	Tier II	No						
Sulfide											
G135-502	OPCA-MW-1R	10/5/2007	Water	Tier II	No						
G135-503	78-1	10/9/2007	Water	Tier II	Yes	Sulfide	MS/MSD %R	25.0%, 22.0%	75% to 125%	R	
G135-503	GMA4-6	10/8/2007	Water	Tier II	Yes	Sulfide	LCS %R	67.0%	80% to 120%	ND(1.00) J	
G135-503	GMA-4-DUP-1	10/8/2007	Water	Tier II	Yes	Sulfide	LCS %R	67.0%	80% to 120%	ND(1.00) J	Parent Sample OPCA-MW-2
G135-503	OPCA-MW-2	10/8/2007	Water	Tier II	Yes	Sulfide	LCS %R	67.0%	80% to 120%	ND(1.00) J	
G135-503	OPCA-MW-5R	10/9/2007	Water	Tier II	Yes	Sulfide	LCS %R	67.0%	80% to 120%	ND(1.00) J	
G135-503	SCH-4	10/8/2007	Water	Tier II	Yes	Sulfide	LCS %R	67.0%	80% to 120%	ND(1.00) J	
G135-506	H78B-15	10/10/2007	Water	Tier II	Yes	Sulfide	MS %R	61.0%	75% to 125%	ND(1.00) J	
G135-506	OPCA-MW-3	10/9/2007	Water	Tier II	No						
G135-506	OPCA-MW-4	10/9/2007	Water	Tier II	No						
G135-508	OPCA-MW-8	10/11/2007	Water	Tier II	No						
G135-510	GMA-4-RB-1	10/15/2007	Water	Tier II	No						
G135-510	OPCA-MW-6	10/15/2007	Water	Tier II	No						
G135-510	OPCA-MW-7	10/16/2007	Water	Tier II	Yes	Sulfide	MS %R	52.0%	75% to 125%	ND(1.00) J	
G135-559	78-6	11/13/2007	Water	Tier II	Yes	Sulfide	LCS %R	71.0%	80% to 120%	ND(1.00) J	

Page 9 of 9